Supply Inputs

30 MMT in 2035

*INFORMATION ONLY - Calculated capacity, energy, and capacity factor values for all supply resources*

**Supply Inputs: Values should be pasted directly from the Resource Data Template using Excel's "Paste Values" option**

| Resource | 2024 | 2026 | 2030 | 2035 | Units | RPS or GHG-Free | Calculated Capacity (MW) 2024 | 2026 | 2030 | 2035 | Calculated Energy Production Potential (GWh, pre-curtailment) 2024 | 2026 | 2030 | 2035 | Capacity Factors (%) 2024 | 2026 | 2030 | 2035 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Large Hydro | 845 | 525 | 525 | 525 | GWh | GHG-Free | 229 | 142 | 142 | 142 | 845 | 525 | 525 | 525 | 42% | 42% | 42% | 42% |
| Imported Hydro | 1,150 | 766 | 69 | 120 | GWh | GHG-Free | 297 | 198 | 18 | 31 | 1,150 | 766 | 69 | 120 | 44% | 44% | 44% | 44% |
| Asset Controlling Supplier | - | - | - | - | GWh | GHG-Free (Partial) | - | - | - | - | - | - | - | - | 44% | 44% | 44% | 44% |
| Nuclear | - | - | - | - | GWh | GHG-Free | - | - | - | - | - | - | - | - | 98% | 98% | 90% | 97% |
| Biogas | 80 | 80 | 80 | 30 | GWh | RPS | 14 | 14 | 15 | 6 | 80 | 80 | 80 | 30 | 68% | 66% | 62% | 60% |
| Biomass | 65 | 38 | 4 | 16 | GWh | RPS | 11 | 6 | 1 | 3 | 65 | 38 | 4 | 16 | 69% | 70% | 66% | 64% |
| Geothermal | 332 | 454 | 1,753 | 1,785 | GWh | RPS | 41 | 57 | 222 | 228 | 332 | 454 | 1,753 | 1,785 | 92% | 91% | 90% | 89% |
| Small Hydro | 291 | 106 | 27 | 69 | GWh | RPS | 98 | 36 | 12 | 23 | 291 | 106 | 27 | 69 | 34% | 34% | 34% | 34% |
| **Wind Resources** | | | | | | | | | | | | | | | | | | |
| Wind Baseline California | 606 | 761 | 438 | 461 | GWh | RPS | 226 | 293 | 162 | 172 | 606 | 761 | 438 | 461 | 31% | 31% | 31% | 31% |
| Wind New PG&E | 291 | 290 | 290 | 290 | GWh | RPS | 135 | 135 | 135 | 135 | 291 | 290 | 290 | 290 | 25% | 25% | 25% | 25% |
| Wind New SCE SDG&E | - | 263 | 263 | 263 | GWh | RPS | - | 96 | 96 | 96 | - | 263 | 263 | 263 | 31% | 31% | 31% | 31% |
| Wind Pacific Northwest | - | - | - | - | GWh | RPS | - | - | - | - | - | - | - | - | 24% | 24% | 24% | 24% |
| Wind Wyoming | - | - | - | - | GWh | RPS | - | - | - | - | - | - | - | - | 51% | 51% | 51% | 51% |
| Wind New Mexico | - | 19 | 250 | 250 | GWh | RPS | - | - | 60 | 60 | - | - | 250 | 250 | 47% | 47% | 47% | 47% |
| Wind Offshore Morro Bay | - | - | - | 400 | GWh | RPS | - | - | - | 98 | - | - | - | 400 | 46% | 46% | 46% | 46% |
| Wind Offshore Humboldt | - | - | - | - | GWh | RPS | - | - | - | - | - | - | - | - | 55% | 55% | 55% | 55% |
| **Solar Resources** | | | | | | | | | | | | | | | | | | |
| Solar Baseline California | 1,815 | 1,649 | 1,451 | 1,137 | GWh | RPS | 685 | 623 | 548 | 429 | 1,815 | 1,649 | 1,451 | 1,137 | 30% | 30% | 30% | 30% |
| Solar New PG&E | - | - | - | - | GWh | RPS | - | - | - | - | - | - | - | - | 33% | 33% | 33% | 33% |
| Solar New SCE SDG&E | - | - | - | - | GWh | RPS | - | - | - | - | - | - | - | - | 34% | 34% | 34% | 34% |
| Solar Distributed | 32 | 32 | 32 | 31 | GWh | RPS | 18 | 18 | 18 | 18 | 32 | 32 | 32 | 31 | 20% | 20% | 20% | 20% |
| **Hybrid/Paired** | | | | | | | | | | | | | | | | | | |
| Hybrid or Paired Solar and Battery | 328 | 626 | 614 | 596 | GWh | RPS | 114 | 217 | 212 | 206 | 328 | 626 | 614 | 596 | 33% | 33% | 33% | 33% |
| **Storage & DR** | | | | | | | | | | | | | | | | | | |
| Shed DR | 15 | 15 | 15 | - | MW | GHG-Free | 15 | 15 | 15 | - | 0 | 0 | 0 | - | 0.04% | 0.04% | 0.03% | 0.03% |
| Pumped Storage | - | - | - | - | MW | n/a | - | - | - | - | - | - | - | - | -7% | -7% | -7% | -7% |
| Battery Storage | 649 | 857 | 2,057 | 2,117 | MWh Energy Capacity | n/a | 162 | 214 | 514 | 529 | (36) | (48) | (121) | (122) | -3% | -3% | -3% | -3% |
| **User-Specified Profiles** | | | | | | | | | | | | | | | | | | |
| Storage Resource Custom Profile | - | - | - | - | MW | n/a | - | - | - | - | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| RPS Resource Custom Profile | - | - | - | - | GWh | RPS | n/a | n/a | n/a | n/a | - | - | - | - | n/a | n/a | n/a | n/a |
| GHG-free non-RPS Resource Custom Profile | - | - | - | - | GWh | GHG-Free | n/a | n/a | n/a | n/a | - | - | - | - | n/a | n/a | n/a | n/a |
| **Coal** | | | | | | | | | | | | | | | | | | |
| Coal | - | - | - | - | GWh | n/a | - | - | - | - | - | - | - | - | 25% | 0% | 0% | 0% |
| **Calculated Share of IFM CHP - do not edit** | | | | | | | | | | | | | | | | | | |
| IFM CHP | 323 | 311 | 312 | 182 | GWh | n/a | 66 | 65 | 65 | 38 | 323 | 311 | 312 | 182 | 56% | 56% | 55% | 55% |

| Checks | 2024 | 2026 | 2030 | 2035 |
|---|---|---|---|---|
| No negative supply inputs | TRUE | TRUE | TRUE | TRUE |
| Storage Resource Custom Profile does not produce power on a net basis | TRUE | TRUE | TRUE | TRUE |
| Storage Resource Custom Profile has values between -1 and 1 | TRUE | TRUE | TRUE | TRUE |
| Sum of hourly RPS Resource Custom Profile equals annual input | TRUE | TRUE | TRUE | TRUE |
| Sum of hourly GHG-free non-RPS Resource Custom Profile equals annual input | TRUE | TRUE | TRUE | TRUE |

**Custom Hourly Profiles**

Users wishing to add multiple custom resources of the same type should add together the hourly production values outside of this tool and input the final 8760 shape below.
Power production or storage dispatch entered in this section is incremental to any of the standard resource types entered in the resource table above - entering the same resources in both sections would result in double counting.

| | Storage Resource Custom Profile | | | | RPS Resource Custom Profile | | | | GHG-free non-RPS Resource Custom Profile | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | Profile should be normalized to MW of nameplate storage capacity in the "Storage Resource Custom Profile" row above. Values should range between -1 (charging at max) to 1 (discharging at max). | | | | Profile should be in units of MW in each hour (~MWh) The sum of power production in each year must match the annual value in the "User-Specified Profiles" section. | | | | Profile should be in units of MW in each hour (~MWh) The sum of power production in each year must match the annual value in the "User-Specified Profiles" section. | | | |
| Total | - | - | - | - | - | - | - | - | - | - | - | - |
| Max | - | - | - | - | - | - | - | - | - | - | - | - |
| Min | - | - | - | - | - | - | - | - | - | - | - | - |
| Month | Day | Hour | 2024 | 2026 | 2030 | 2035 | 2024 | 2026 | 2030 | 2035 | 2024 | 2026 | 2030 | 2035 |
| 1 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 1 | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 1 | 3 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 1 | 4 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 1 | 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 1 | 6 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 1 | 7 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 1 | 8 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 1 | 9 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 1 | 10 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 1 | 11 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 1 | 12 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 1 | 13 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 1 | 14 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 1 | 15 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 1 | 16 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 1 | 17 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 1 | 18 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 1 | 19 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 1 | 20 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 1 | 21 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 1 | 22 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 1 | 23 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 1 | 24 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 2 | 3 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 2 | 4 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 2 | 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 2 | 6 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 2 | 7 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 2 | 8 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 2 | 9 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 2 | 10 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 2 | 11 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 2 | 12 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 2 | 13 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 2 | 14 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 2 | 15 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 2 | 16 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 2 | 17 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 2 | 18 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 2 | 19 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 2 | 20 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 2 | 21 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 2 | 22 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 2 | 23 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 2 | 24 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 3 | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 3 | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 3 | 4 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 3 | 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 3 | 6 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 3 | 7 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 3 | 8 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 3 | 9 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 3 | 10 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 3 | 11 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 3 | 12 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 3 | 13 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 3 | 14 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 3 | 15 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 3 | 16 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 3 | 17 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 3 | 18 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 3 | 19 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 3 | 20 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 3 | 21 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 3 | 22 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 3 | 23 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 3 | 24 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 4 | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 4 | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 4 | 3 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 4 | 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 4 | 6 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 4 | 7 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 4 | 8 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 4 | 9 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 4 | 10 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 4 | 11 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 4 | 12 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 4 | 13 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 4 | 14 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 4 | 15 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 4 | 16 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 4 | 17 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 4 | 18 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 4 | 19 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 4 | 20 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 4 | 21 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 4 | 22 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 4 | 23 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 4 | 24 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 5 | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 5 | 3 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 5 | 4 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 5 | 6 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 5 | 7 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 5 | 8 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 5 | 9 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 5 | 10 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 5 | 11 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 5 | 12 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 5 | 13 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 5 | 14 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 5 | 15 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 5 | 16 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 5 | 17 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 5 | 18 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 5 | 19 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 5 | 20 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 5 | 21 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 5 | 22 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 5 | 23 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 5 | 24 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 6 | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 6 | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 6 | 3 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 6 | 4 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 6 | 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 6 | 7 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 6 | 8 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 6 | 9 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 6 | 10 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 6 | 11 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 6 | 12 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 6 | 13 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 6 | 14 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 6 | 15 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 6 | 16 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 6 | 17 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 6 | 18 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 6 | 19 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 6 | 20 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 6 | 21 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 6 | 22 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 6 | 23 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 6 | 24 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 7 | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 7 | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 7 | 3 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 7 | 4 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 7 | 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 7 | 6 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 7 | 8 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 7 | 9 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 7 | 10 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 7 | 11 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 7 | 12 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 7 | 13 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 7 | 14 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 7 | 15 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 7 | 16 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 7 | 17 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 7 | 18 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 7 | 19 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 7 | 20 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 7 | 21 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 7 | 22 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 7 | 23 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 7 | 24 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 8 | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 8 | 2 | - | - | - | - | - | - | - | - | - | - | - | - |

| | | | |
|---|---|---|---|
| | 1 | 8 | 3 |
| | 1 | 8 | 4 |
| | 1 | 8 | 5 |
| | 1 | 8 | 6 |
| | 1 | 8 | 7 |
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Demand Inputs

*30 MMT in 2035*

## Demand Inputs

| | | Units | 2024 | 2026 | 2030 | 2035 | Notes |
|---|---|---|---|---|---|---|---|
| **Managed Retail Sales Forecast (assigned to LSE)** | | GWh | 5,759 | 5,759 | 5,955 | 6,099 | *Must be entered regardless of demand modifiers selected. Includes effect of BTM PV, Energy Efficiency, etc.* |
| **Behind-The-Meter Photovoltaics (BTM PV) Forecast (assigned to LSE)** | | GWh | 901 | 1,023 | 1,323 | 1,636 | *Measured at customer, not grossed up for T&D losses* |
| Retail Sales without BTM PV reduction | | GWh | 6,660 | 6,782 | 7,279 | 7,734 | *Used to allocate demand modifiers* |
| Behind-The-Meter Photovoltaics (BTM PV) grossed up for T&D losses | | GWh | 973 | 1,104 | 1,428 | 1,764 | *At generator bus-bar* |
| Calculated share of CAISO system demand (% of Retail Sales) | | % | 3% | 3% | 3% | 3% | *Do not edit* |
| | | | | | | | |
| **Commercial & Industrial Fraction of Baseline Demand** | *Use Custom?* | Units | 2024 | 2026 | 2030 | 2035 | Notes |
| Default C&I Percentage of Total | *No* | % | 49% | 49% | 49% | 50% | *Default, do not change. Does not include demand from Light Duty EVs.* |
| Custom C&I Percentage of Total (OPTIONAL) | | % | | | | | *Will be used instead of default if "Use Custom?" = Yes* |
| | | | | | | | |
| **Calculated Demand, based on sales-weighted share of total from IEPR** | | Units | 2024 | 2026 | 2030 | 2035 | Notes |
| Baseline net energy for load | | GWh | 7,011 | 7,088 | 7,497 | 7,765 | *Grossed up for T&D losses; demand met by BTM CHP excluded* |
| Electric Vehicle Load | | GWh | 244 | 346 | 550 | 841 | *Grossed up for T&D losses* |
| Building Electrification | | GWh | 28 | 50 | 101 | 168 | *Grossed up for T&D losses* |
| Energy Efficiency | | GWh | (96) | (164) | (295) | (433) | *Grossed up for T&D losses* |
| Behind-The-Meter Photovoltaics (BTM PV) | | GWh | (973) | (1,104) | (1,428) | (1,764) | *Grossed up for T&D losses* |
| Behind-The-Meter Storage Losses (BTM Storage) | | GWh | 2 | 3 | 5 | 8 | *Grossed up for T&D losses* |
| Behind-The-Meter Storage Capacity (BTM Storage) | | *Nameplate MW* | 32 | 43 | 69 | 102 | *For information only* |
| **Custom Demand Inputs (OPTIONAL; overwrites sales-weighted IEPR values from Calculated Demand section)** | *Use Custom?* | Units | 2024 | 2026 | 2030 | 2035 | Notes |
| Baseline net energy for load | *No* | GWh | | | | | *To overwrite, set "Use Custom" to "Yes" and input forecast. For use in Alternative Plans only.* |
| Electric Vehicle Load | *No* | GWh | | | | | *Custom demand values should be grossed up for T&D losses.* |
| Building Electrification | *No* | GWh | | | | | *User-specified demand profiles should be input in the "Custom Profiles" tab.* |
| Energy Efficiency | *No* | GWh | | | | | *Energy efficiency and BTM PV subtract from demand and therefore should be entered as negative values.* |
| Behind-The-Meter Photovoltaics (BTM PV) | *No* | GWh | | | | | |
| Behind-The-Meter Storage Capacity (BTM Storage) | *No* | *Nameplate MW* | | | | | *Custom BTM storage should be entered in terms of Nameplate MW* |
| Behind-The-Meter Storage Losses (BTM Storage) | | GWh | | | | | |
| **Active Demand Inputs** | **Source** | **Units** | 2024 | 2026 | 2030 | 2035 | Notes |
| Baseline net energy for load | *IEPR* | GWh | 7,011 | 7,088 | 7,497 | 7,765 | *Grossed up for T&D losses; demand met by BTM CHP excluded* |
| Non-commercial/industrial portion of baseline (included in baseline total) | *IEPR* | GWh | 3,607 | 3,634 | 3,805 | 3,863 | *Grossed up for T&D losses; demand met by BTM CHP excluded* |
| Commercial/industrial portion of baseline (included in baseline total) | *IEPR* | GWh | 3,405 | 3,455 | 3,692 | 3,904 | *Grossed up for T&D losses; demand met by BTM CHP excluded* |
| Electric Vehicle Load | *IEPR* | GWh | 244 | 346 | 550 | 841 | *Grossed up for T&D losses* |
| Building Electrification | *IEPR* | GWh | 28 | 50 | 101 | 168 | *Grossed up for T&D losses* |
| Energy Efficiency | *IEPR* | GWh | (96) | (164) | (295) | (433) | *Grossed up for T&D losses* |
| Behind-The-Meter Photovoltaics (BTM PV) | *IEPR* | GWh | (973) | (1,104) | (1,428) | (1,764) | *Grossed up for T&D losses* |
| Behind-The-Meter Storage Losses (BTM Storage) | *IEPR* | GWh | 2 | 3 | 5 | 8 | *Grossed up for T&D losses* |
| | | | | | | | |
| Calculated demand at utility-scale generator bus-bar | | GWh | 6,217 | 6,218 | 6,431 | 6,587 | *Total of "Active Demand Inputs"* |
| | | | | | | | |
| **IFM CHP Calculation** | | | 2024 | 2026 | 2030 | 2035 | |
| CAISO-wide In front of the meter (IFM) Combined Heat and Power (CHP) generation | | GWh | 11,458 | 11,385 | 11,194 | 6,699 | *Input data - do not change. Values are from SERVM dispatch* |
| LSE share of IFM CHP | | GWh | 323 | 315 | 312 | 182 | *Calculation - do not change* |
| | | | | | | | |
| **Checks** | | | 2024 | 2026 | 2030 | 2035 | |
| Correct sign (positive/negative) on demand inputs | | | TRUE | TRUE | TRUE | TRUE | |
| If custom C&I percentage is used, positive percentage is used | | | TRUE | TRUE | TRUE | TRUE | |
| | | | | | | | |
| **Custom Demand Shapes (OPTIONAL; overwrites default demand shapes)** | | | **Custom Hourly Demand Profiles** | | | | |
| | | *Use Custom Shape?* | *No* | *No* | *No* | *No* | *No* | *No* | *No* | *No* |
| | | Notes: | *Set "Use Custom Shape" toggle to "Yes" to overwrite default shape with custom shape below.* | | | | | | | |
| | | | *Shape should be normalized - the sum of the hourly values over the entire year should equal 1 with the exception of BTM Storage.* | | | | | | | |
| | | | *For all profiles except BTM Storage, normalize by dividing every hour of the original non-normalized shape (in MW) by the annual total (in MWh/yr)* | | | | | | | |
| | | | *BTM Storage should be normalized to the nameplate capacity (in MW).* | | | | | | | |
| | | **Check: Sums to 1 if custom shape is defined?** | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | **BTM Storage Check: Between -1 and 1** |

| **Total** | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Month | Day | Hour | Baseline: Non C&I | Baseline: C&I | Electric Vehicle Load | Building Electrification | Energy Efficiency | Behind-The-Meter Photovoltaics (BTM PV) | Behind-The-Meter Storage (BTM Storage) | |
| 1 | 1 | 1 | | | | | | | | |
| 1 | 1 | 2 | | | | | | | | |
| 1 | 1 | 3 | | | | | | | | |
| 1 | 1 | 4 | | | | | | | | |
| 1 | 1 | 5 | | | | | | | | |
| 1 | 1 | 6 | | | | | | | | |
| 1 | 1 | 7 | | | | | | | | |
| 1 | 1 | 8 | | | | | | | | |
| 1 | 1 | 9 | | | | | | | | |
| 1 | 1 | 10 | | | | | | | | |
| 1 | 1 | 11 | | | | | | | | |
| 1 | 1 | 12 | | | | | | | | |
| 1 | 1 | 13 | | | | | | | | |
| 1 | 1 | 14 | | | | | | | | |
| 1 | 1 | 15 | | | | | | | | |
| 1 | 1 | 16 | | | | | | | | |
| 1 | 1 | 17 | | | | | | | | |
| 1 | 1 | 18 | | | | | | | | |
| 1 | 1 | 19 | | | | | | | | |
| 1 | 1 | 20 | | | | | | | | |
| 1 | 1 | 21 | | | | | | | | |
| 1 | 1 | 22 | | | | | | | | |
| 1 | 1 | 23 | | | | | | | | |
| 1 | 1 | 24 | | | | | | | | |
| 1 | 2 | 1 | | | | | | | | |
| 1 | 2 | 2 | | | | | | | | |
| 1 | 2 | 3 | | | | | | | | |
| 1 | 2 | 4 | | | | | | | | |
| 1 | 2 | 5 | | | | | | | | |
| 1 | 2 | 6 | | | | | | | | |
| 1 | 2 | 7 | | | | | | | | |
| 1 | 2 | 8 | | | | | | | | |
| 1 | 2 | 9 | | | | | | | | |
| 1 | 2 | 10 | | | | | | | | |
| 1 | 2 | 11 | | | | | | | | |
| 1 | 2 | 12 | | | | | | | | |
| 1 | 2 | 13 | | | | | | | | |
| 1 | 2 | 14 | | | | | | | | |
| 1 | 2 | 15 | | | | | | | | |
| 1 | 2 | 16 | | | | | | | | |
| 1 | 2 | 17 | | | | | | | | |
| 1 | 2 | 18 | | | | | | | | |
| 1 | 2 | 19 | | | | | | | | |
| 1 | 2 | 20 | | | | | | | | |
| 1 | 2 | 21 | | | | | | | | |
| 1 | 2 | 22 | | | | | | | | |
| 1 | 2 | 23 | | | | | | | | |
| 1 | 2 | 24 | | | | | | | | |
| 1 | 3 | 1 | | | | | | | | |
| 1 | 3 | 2 | | | | | | | | |
| 1 | 3 | 3 | | | | | | | | |
| 1 | 3 | 4 | | | | | | | | |
| 1 | 3 | 5 | | | | | | | | |
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| 1 | 3 | 7 | | | | | | | | |
| 1 | 3 | 8 | | | | | | | | |
| 1 | 3 | 9 | | | | | | | | |
| 1 | 3 | 10 | | | | | | | | |
| 1 | 3 | 11 | | | | | | | | |
| 1 | 3 | 12 | | | | | | | | |
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| 1 | 3 | 14 | | | | | | | | |
| 1 | 3 | 15 | | | | | | | | |
| 1 | 3 | 16 | | | | | | | | |
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| 1 | 3 | 18 | | | | | | | | |
| 1 | 3 | 19 | | | | | | | | |
| 1 | 3 | 20 | | | | | | | | |
| 1 | 3 | 21 | | | | | | | | |
| 1 | 3 | 22 | | | | | | | | |
| 1 | 3 | 23 | | | | | | | | |
| 1 | 3 | 24 | | | | | | | | |
| 1 | 4 | 1 | | | | | | | | |
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| 1 | 4 | 18 | | | | | | | | |
| 1 | 4 | 19 | | | | | | | | |
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| 1 | 4 | 21 | | | | | | | | |
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| 1 | 4 | 23 | | | | | | | | |
| 1 | 4 | 24 | | | | | | | | |
| 1 | 5 | 1 | | | | | | | | |
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| 1 | 5 | 4 | | | | | | | | |
| 1 | 5 | 5 | | | | | | | | |
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| 1 | 5 | 12 | | | | | | | | |
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| 1 | 5 | 14 | | | | | | | | |
| 1 | 5 | 15 | | | | | | | | |
| 1 | 5 | 16 | | | | | | | | |
| 1 | 5 | 17 | | | | | | | | |
| 1 | 5 | 18 | | | | | | | | |
| 1 | 5 | 19 | | | | | | | | |
| 1 | 5 | 20 | | | | | | | | |
| 1 | 5 | 21 | | | | | | | | |
| 1 | 5 | 22 | | | | | | | | |
| 1 | 5 | 23 | | | | | | | | |
| 1 | 5 | 24 | | | | | | | | |
| 1 | 6 | 1 | | | | | | | | |
| 1 | 6 | 2 | | | | | | | | |
| 1 | 6 | 3 | | | | | | | | |
| 1 | 6 | 4 | | | | | | | | |
| 1 | 6 | 5 | | | | | | | | |
| 1 | 6 | 6 | | | | | | | | |
| 1 | 6 | 7 | | | | | | | | |
| 1 | 6 | 8 | | | | | | | | |
| 1 | 6 | 9 | | | | | | | | |
| 1 | 6 | 10 | | | | | | | | |
| 1 | 6 | 11 | | | | | | | | |
| 1 | 6 | 12 | | | | | | | | |
| 1 | 6 | 13 | | | | | | | | |
| 1 | 6 | 14 | | | | | | | | |
| 1 | 6 | 15 | | | | | | | | |
| 1 | 6 | 16 | | | | | | | | |
| 1 | 6 | 17 | | | | | | | | |
| 1 | 6 | 18 | | | | | | | | |
| 1 | 6 | 19 | | | | | | | | |
| 1 | 6 | 20 | | | | | | | | |
| 1 | 6 | 21 | | | | | | | | |
| 1 | 6 | 22 | | | | | | | | |
| 1 | 6 | 23 | | | | | | | | |
| 1 | 6 | 24 | | | | | | | | |
| 1 | 7 | 1 | | | | | | | | |
| 1 | 7 | 2 | | | | | | | | |
| 1 | 7 | 3 | | | | | | | | |

Demand Inputs

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| | | 1 | 7 | 6 | | | | | | | | | |
| | | 1 | 7 | 7 | | | | | | | | | |
| | | 1 | 7 | 8 | | | | | | | | | |
| | | 1 | 7 | 9 | | | | | | | | | |
| | | 1 | 7 | 10 | | | | | | | | | |
| | | 1 | 7 | 11 | | | | | | | | | |
| | | 1 | 7 | 12 | | | | | | | | | |
| | | 1 | 7 | 13 | | | | | | | | | |
| | | 1 | 7 | 14 | | | | | | | | | |
| | | 1 | 7 | 15 | | | | | | | | | |
| | | 1 | 7 | 16 | | | | | | | | | |
| | | 1 | 7 | 17 | | | | | | | | | |
| | | 1 | 7 | 18 | | | | | | | | | |
| | | 1 | 7 | 19 | | | | | | | | | |
| | | 1 | 7 | 20 | | | | | | | | | |
| | | 1 | 7 | 21 | | | | | | | | | |
| | | 1 | 7 | 22 | | | | | | | | | |
| | | 1 | 7 | 23 | | | | | | | | | |
| | | 1 | 7 | 24 | | | | | | | | | |
| | | 1 | 8 | 1 | | | | | | | | | |
| | | 1 | 8 | 2 | | | | | | | | | |
| | | 1 | 8 | 3 | | | | | | | | | |
| | | 1 | 8 | 4 | | | | | | | | | |
| | | 1 | 8 | 5 | | | | | | | | | |
| | | 1 | 8 | 6 | | | | | | | | | |
| | | 1 | 8 | 7 | | | | | | | | | |
| | | 1 | 8 | 8 | | | | | | | | | |
| | | 1 | 8 | 9 | | | | | | | | | |
| | | 1 | 8 | 10 | | | | | | | | | |
| | | 1 | 8 | 11 | | | | | | | | | |
| | | 1 | 8 | 12 | | | | | | | | | |
| | | 1 | 8 | 13 | | | | | | | | | |
| | | 1 | 8 | 14 | | | | | | | | | |
| | | 1 | 8 | 15 | | | | | | | | | |
| | | 1 | 8 | 16 | | | | | | | | | |
| | | 1 | 8 | 17 | | | | | | | | | |
| | | 1 | 8 | 18 | | | | | | | | | |
| | | 1 | 8 | 19 | | | | | | | | | |
| | | 1 | 8 | 20 | | | | | | | | | |
| | | 1 | 8 | 21 | | | | | | | | | |
| | | 1 | 8 | 22 | | | | | | | | | |
| | | 1 | 8 | 23 | | | | | | | | | |
| | | 1 | 8 | 24 | | | | | | | | | |
| | | 1 | 9 | 1 | | | | | | | | | |
| | | 1 | 9 | 2 | | | | | | | | | |
| | | 1 | 9 | 3 | | | | | | | | | |
| | | 1 | 9 | 4 | | | | | | | | | |
| | | 1 | 9 | 5 | | | | | | | | | |
| | | 1 | 9 | 6 | | | | | | | | | |
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| | | 1 | 9 | 9 | | | | | | | | | |
| | | 1 | 9 | 10 | | | | | | | | | |
| | | 1 | 9 | 11 | | | | | | | | | |
| | | 1 | 9 | 12 | | | | | | | | | |
| | | 1 | 9 | 13 | | | | | | | | | |
| | | 1 | 9 | 14 | | | | | | | | | |
| | | 1 | 9 | 15 | | | | | | | | | |
| | | 1 | 9 | 16 | | | | | | | | | |
| | | 1 | 9 | 17 | | | | | | | | | |
| | | 1 | 9 | 18 | | | | | | | | | |
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| | | 1 | 9 | 20 | | | | | | | | | |
| | | 1 | 9 | 21 | | | | | | | | | |
| | | 1 | 9 | 22 | | | | | | | | | |
| | | 1 | 9 | 23 | | | | | | | | | |
| | | 1 | 9 | 24 | | | | | | | | | |
| | | 1 | 10 | 1 | | | | | | | | | |
| | | 1 | 10 | 2 | | | | | | | | | |
| | | 1 | 10 | 3 | | | | | | | | | |
| | | 1 | 10 | 4 | | | | | | | | | |
| | | 1 | 10 | 5 | | | | | | | | | |
| | | 1 | 10 | 6 | | | | | | | | | |
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| | | 1 | 10 | 15 | | | | | | | | | |
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| | | 1 | 10 | 17 | | | | | | | | | |
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| | | 1 | 11 | 2 | | | | | | | | | |
| | | 1 | 11 | 3 | | | | | | | | | |
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| | | 1 | 12 | 2 | | | | | | | | | |
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| | | 1 | 14 | 24 | | | | | | | | | |
| | | 1 | 15 | 1 | | | | | | | | | |
| | | 1 | 15 | 2 | | | | | | | | | |
| | | 1 | 15 | 3 | | | | | | | | | |
| | | 1 | 15 | 4 | | | | | | | | | |
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| | | 1 | 15 | 6 | | | | | | | | | |
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| | | 1 | 15 | 9 | | | | | | | | | |
| | | 1 | 15 | 10 | | | | | | | | | |
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Demand Inputs

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| | | 1 | 15 | 19 | | | | | | | | | |
| | | 1 | 15 | 20 | | | | | | | | | |
| | | 1 | 15 | 21 | | | | | | | | | |
| | | 1 | 15 | 22 | | | | | | | | | |
| | | 1 | 15 | 23 | | | | | | | | | |
| | | 1 | 15 | 24 | | | | | | | | | |
| | | 1 | 16 | 1 | | | | | | | | | |
| | | 1 | 16 | 2 | | | | | | | | | |
| | | 1 | 16 | 3 | | | | | | | | | |
| | | 1 | 16 | 4 | | | | | | | | | |
| | | 1 | 16 | 5 | | | | | | | | | |
| | | 1 | 16 | 6 | | | | | | | | | |
| | | 1 | 16 | 7 | | | | | | | | | |
| | | 1 | 16 | 8 | | | | | | | | | |
| | | 1 | 16 | 9 | | | | | | | | | |
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| | | 1 | 16 | 11 | | | | | | | | | |
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| | | 1 | 16 | 13 | | | | | | | | | |
| | | 1 | 16 | 14 | | | | | | | | | |
| | | 1 | 16 | 15 | | | | | | | | | |
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| | | 1 | 16 | 17 | | | | | | | | | |
| | | 1 | 16 | 18 | | | | | | | | | |
| | | 1 | 16 | 19 | | | | | | | | | |
| | | 1 | 16 | 20 | | | | | | | | | |
| | | 1 | 16 | 21 | | | | | | | | | |
| | | 1 | 16 | 22 | | | | | | | | | |
| | | 1 | 16 | 23 | | | | | | | | | |
| | | 1 | 16 | 24 | | | | | | | | | |
| | | 1 | 17 | 1 | | | | | | | | | |
| | | 1 | 17 | 2 | | | | | | | | | |
| | | 1 | 17 | 3 | | | | | | | | | |
| | | 1 | 17 | 4 | | | | | | | | | |
| | | 1 | 17 | 5 | | | | | | | | | |
| | | 1 | 17 | 6 | | | | | | | | | |
| | | 1 | 17 | 7 | | | | | | | | | |
| | | 1 | 17 | 8 | | | | | | | | | |
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| | | 1 | 17 | 10 | | | | | | | | | |
| | | 1 | 17 | 11 | | | | | | | | | |
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| | | 1 | 17 | 16 | | | | | | | | | |
| | | 1 | 17 | 17 | | | | | | | | | |
| | | 1 | 17 | 18 | | | | | | | | | |
| | | 1 | 17 | 19 | | | | | | | | | |
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| | | 1 | 17 | 22 | | | | | | | | | |
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| | | 1 | 18 | 1 | | | | | | | | | |
| | | 1 | 18 | 2 | | | | | | | | | |
| | | 1 | 18 | 3 | | | | | | | | | |
| | | 1 | 18 | 4 | | | | | | | | | |
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| | | 1 | 18 | 22 | | | | | | | | | |
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| | | 1 | 19 | 1 | | | | | | | | | |
| | | 1 | 19 | 2 | | | | | | | | | |
| | | 1 | 19 | 3 | | | | | | | | | |
| | | 1 | 19 | 4 | | | | | | | | | |
| | | 1 | 19 | 5 | | | | | | | | | |
| | | 1 | 19 | 6 | | | | | | | | | |
| | | 1 | 19 | 7 | | | | | | | | | |
| | | 1 | 19 | 8 | | | | | | | | | |
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| | | 1 | 19 | 10 | | | | | | | | | |
| | | 1 | 19 | 11 | | | | | | | | | |
| | | 1 | 19 | 12 | | | | | | | | | |
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| | | 1 | 19 | 14 | | | | | | | | | |
| | | 1 | 19 | 15 | | | | | | | | | |
| | | 1 | 19 | 16 | | | | | | | | | |
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| | | 1 | 19 | 24 | | | | | | | | | |
| | | 1 | 20 | 1 | | | | | | | | | |
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| | | 1 | 20 | 22 | | | | | | | | | |
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| | | 1 | 21 | 1 | | | | | | | | | |
| | | 1 | 21 | 2 | | | | | | | | | |
| | | 1 | 21 | 3 | | | | | | | | | |
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| | | 1 | 23 | 16 | | | | | | | | | |
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| | | 1 | 25 | 1 | | | | | | | | | |
| | | 1 | 25 | 2 | | | | | | | | | |
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| | | 1 | 25 | 5 | | | | | | | | | |
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| | | 1 | 25 | 22 | | | | | | | | | |
| | | 1 | 25 | 23 | | | | | | | | | |
| | | 1 | 25 | 24 | | | | | | | | | |
| | | 1 | 26 | 1 | | | | | | | | | |
| | | 1 | 26 | 2 | | | | | | | | | |
| | | 1 | 26 | 3 | | | | | | | | | |
| | | 1 | 26 | 4 | | | | | | | | | |
| | | 1 | 26 | 5 | | | | | | | | | |
| | | 1 | 26 | 6 | | | | | | | | | |
| | | 1 | 26 | 7 | | | | | | | | | |
| | | 1 | 26 | 8 | | | | | | | | | |
| | | 1 | 26 | 9 | | | | | | | | | |
| | | 1 | 26 | 10 | | | | | | | | | |
| | | 1 | 26 | 11 | | | | | | | | | |
| | | 1 | 26 | 12 | | | | | | | | | |
| | | 1 | 26 | 13 | | | | | | | | | |
| | | 1 | 26 | 14 | | | | | | | | | |
| | | 1 | 26 | 15 | | | | | | | | | |
| | | 1 | 26 | 16 | | | | | | | | | |
| | | 1 | 26 | 17 | | | | | | | | | |
| | | 1 | 26 | 18 | | | | | | | | | |
| | | 1 | 26 | 19 | | | | | | | | | |
| | | 1 | 26 | 20 | | | | | | | | | |
| | | 1 | 26 | 21 | | | | | | | | | |
| | | 1 | 26 | 22 | | | | | | | | | |
| | | 1 | 26 | 23 | | | | | | | | | |
| | | 1 | 26 | 24 | | | | | | | | | |
| | | 1 | 27 | 1 | | | | | | | | | |
| | | 1 | 27 | 2 | | | | | | | | | |
| | | 1 | 27 | 3 | | | | | | | | | |
| | | 1 | 27 | 4 | | | | | | | | | |
| | | 1 | 27 | 5 | | | | | | | | | |
| | | 1 | 27 | 6 | | | | | | | | | |
| | | 1 | 27 | 7 | | | | | | | | | |
| | | 1 | 27 | 8 | | | | | | | | | |
| | | 1 | 27 | 9 | | | | | | | | | |
| | | 1 | 27 | 10 | | | | | | | | | |
| | | 1 | 27 | 11 | | | | | | | | | |
| | | 1 | 27 | 12 | | | | | | | | | |
| | | 1 | 27 | 13 | | | | | | | | | |
| | | 1 | 27 | 14 | | | | | | | | | |
| | | 1 | 27 | 15 | | | | | | | | | |
| | | 1 | 27 | 16 | | | | | | | | | |
| | | 1 | 27 | 17 | | | | | | | | | |
| | | 1 | 27 | 18 | | | | | | | | | |
| | | 1 | 27 | 19 | | | | | | | | | |
| | | 1 | 27 | 20 | | | | | | | | | |
| | | 1 | 27 | 21 | | | | | | | | | |
| | | 1 | 27 | 22 | | | | | | | | | |
| | | 1 | 27 | 23 | | | | | | | | | |
| | | 1 | 27 | 24 | | | | | | | | | |
| | | 1 | 28 | 1 | | | | | | | | | |
| | | 1 | 28 | 2 | | | | | | | | | |
| | | 1 | 28 | 3 | | | | | | | | | |
| | | 1 | 28 | 4 | | | | | | | | | |
| | | 1 | 28 | 5 | | | | | | | | | |
| | | 1 | 28 | 6 | | | | | | | | | |
| | | 1 | 28 | 7 | | | | | | | | | |
| | | 1 | 28 | 8 | | | | | | | | | |
| | | 1 | 28 | 9 | | | | | | | | | |
| | | 1 | 28 | 10 | | | | | | | | | |
| | | 1 | 28 | 11 | | | | | | | | | |
| | | 1 | 28 | 12 | | | | | | | | | |
| | | 1 | 28 | 13 | | | | | | | | | |
| | | 1 | 28 | 14 | | | | | | | | | |
| | | 1 | 28 | 15 | | | | | | | | | |
| | | 1 | 28 | 16 | | | | | | | | | |
| | | 1 | 28 | 17 | | | | | | | | | |
| | | 1 | 28 | 18 | | | | | | | | | |
| | | 1 | 28 | 19 | | | | | | | | | |
| | | 1 | 28 | 20 | | | | | | | | | |
| | | 1 | 28 | 21 | | | | | | | | | |
| | | 1 | 28 | 22 | | | | | | | | | |
| | | 1 | 28 | 23 | | | | | | | | | |
| | | 1 | 28 | 24 | | | | | | | | | |
| | | 1 | 29 | 1 | | | | | | | | | |
| | | 1 | 29 | 2 | | | | | | | | | |
| | | 1 | 29 | 3 | | | | | | | | | |
| | | 1 | 29 | 4 | | | | | | | | | |
| | | 1 | 29 | 5 | | | | | | | | | |
| | | 1 | 29 | 6 | | | | | | | | | |
| | | 1 | 29 | 7 | | | | | | | | | |
| | | 1 | 29 | 8 | | | | | | | | | |
| | | 1 | 29 | 9 | | | | | | | | | |
| | | 1 | 29 | 10 | | | | | | | | | |
| | | 1 | 29 | 11 | | | | | | | | | |
| | | 1 | 29 | 12 | | | | | | | | | |
| | | 1 | 29 | 13 | | | | | | | | | |
| | | 1 | 29 | 14 | | | | | | | | | |
| | | 1 | 29 | 15 | | | | | | | | | |
| | | 1 | 29 | 16 | | | | | | | | | |
| | | 1 | 29 | 17 | | | | | | | | | |
| | | 1 | 29 | 18 | | | | | | | | | |
| | | 1 | 29 | 19 | | | | | | | | | |
| | | 1 | 29 | 20 | | | | | | | | | |
| | | 1 | 29 | 21 | | | | | | | | | |
| | | 1 | 29 | 22 | | | | | | | | | |
| | | 1 | 29 | 23 | | | | | | | | | |
| | | 1 | 29 | 24 | | | | | | | | | |
| | | 1 | 30 | 1 | | | | | | | | | |
| | | 1 | 30 | 2 | | | | | | | | | |
| | | 1 | 30 | 3 | | | | | | | | | |
| | | 1 | 30 | 4 | | | | | | | | | |
| | | 1 | 30 | 5 | | | | | | | | | |
| | | 1 | 30 | 6 | | | | | | | | | |
| | | 1 | 30 | 7 | | | | | | | | | |
| | | 1 | 30 | 8 | | | | | | | | | |
| | | 1 | 30 | 9 | | | | | | | | | |
| | | 1 | 30 | 10 | | | | | | | | | |
| | | 1 | 30 | 11 | | | | | | | | | |
| | | 1 | 30 | 12 | | | | | | | | | |
| | | 1 | 30 | 13 | | | | | | | | | |
| | | 1 | 30 | 14 | | | | | | | | | |
| | | 1 | 30 | 15 | | | | | | | | | |
| | | 1 | 30 | 16 | | | | | | | | | |
| | | 1 | 30 | 17 | | | | | | | | | |
| | | 1 | 30 | 18 | | | | | | | | | |
| | | 1 | 30 | 19 | | | | | | | | | |
| | | 1 | 30 | 20 | | | | | | | | | |
| | | 1 | 30 | 21 | | | | | | | | | |
| | | 1 | 30 | 22 | | | | | | | | | |
| | | 1 | 30 | 23 | | | | | | | | | |
| | | 1 | 30 | 24 | | | | | | | | | |
| | | 1 | 31 | 1 | | | | | | | | | |
| | | 1 | 31 | 2 | | | | | | | | | |
| | | 1 | 31 | 3 | | | | | | | | | |
| | | 1 | 31 | 4 | | | | | | | | | |
| | | 1 | 31 | 5 | | | | | | | | | |
| | | 1 | 31 | 6 | | | | | | | | | |
| | | 1 | 31 | 7 | | | | | | | | | |
| | | 1 | 31 | 8 | | | | | | | | | |
| | | 1 | 31 | 9 | | | | | | | | | |
| | | 1 | 31 | 10 | | | | | | | | | |
| | | 1 | 31 | 11 | | | | | | | | | |
| | | 1 | 31 | 12 | | | | | | | | | |
| | | 1 | 31 | 13 | | | | | | | | | |
| | | 1 | 31 | 14 | | | | | | | | | |
| | | 1 | 31 | 15 | | | | | | | | | |
| | | 1 | 31 | 16 | | | | | | | | | |
| | | 1 | 31 | 17 | | | | | | | | | |
| | | 1 | 31 | 18 | | | | | | | | | |
| | | 1 | 31 | 19 | | | | | | | | | |
| | | 1 | 31 | 20 | | | | | | | | | |
| | | 1 | 31 | 21 | | | | | | | | | |
| | | 1 | 31 | 22 | | | | | | | | | |
| | | 1 | 31 | 23 | | | | | | | | | |
| | | 1 | 31 | 24 | | | | | | | | | |
| | | 2 | 1 | 1 | | | | | | | | | |
| | | 2 | 1 | 2 | | | | | | | | | |
| | | 2 | 1 | 3 | | | | | | | | | |
| | | 2 | 1 | 4 | | | | | | | | | |
| | | 2 | 1 | 5 | | | | | | | | | |
| | | 2 | 1 | 6 | | | | | | | | | |
| | | 2 | 1 | 7 | | | | | | | | | |
| | | 2 | 1 | 8 | | | | | | | | | |
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| | 2 | 1 | 16 | | | | | | | | | |
| | 2 | 1 | 17 | | | | | | | | | |
| | 2 | 1 | 18 | | | | | | | | | |
| | 2 | 1 | 19 | | | | | | | | | |
| | 2 | 1 | 20 | | | | | | | | | |
| | 2 | 1 | 21 | | | | | | | | | |
| | 2 | 1 | 22 | | | | | | | | | |
| | 2 | 1 | 23 | | | | | | | | | |
| | 2 | 1 | 24 | | | | | | | | | |
| | 2 | 2 | 1 | | | | | | | | | |
| | 2 | 2 | 2 | | | | | | | | | |
| | 2 | 2 | 3 | | | | | | | | | |
| | 2 | 2 | 4 | | | | | | | | | |
| | 2 | 2 | 5 | | | | | | | | | |
| | 2 | 2 | 6 | | | | | | | | | |
| | 2 | 2 | 7 | | | | | | | | | |
| | 2 | 2 | 8 | | | | | | | | | |
| | 2 | 2 | 9 | | | | | | | | | |
| | 2 | 2 | 10 | | | | | | | | | |
| | 2 | 2 | 11 | | | | | | | | | |
| | 2 | 2 | 12 | | | | | | | | | |
| | 2 | 2 | 13 | | | | | | | | | |
| | 2 | 2 | 14 | | | | | | | | | |
| | 2 | 2 | 15 | | | | | | | | | |
| | 2 | 2 | 16 | | | | | | | | | |
| | 2 | 2 | 17 | | | | | | | | | |
| | 2 | 2 | 18 | | | | | | | | | |
| | 2 | 2 | 19 | | | | | | | | | |
| | 2 | 2 | 20 | | | | | | | | | |
| | 2 | 2 | 21 | | | | | | | | | |
| | 2 | 2 | 22 | | | | | | | | | |
| | 2 | 2 | 23 | | | | | | | | | |
| | 2 | 2 | 24 | | | | | | | | | |
| | 2 | 3 | 1 | | | | | | | | | |
| | 2 | 3 | 2 | | | | | | | | | |
| | 2 | 3 | 3 | | | | | | | | | |
| | 2 | 3 | 4 | | | | | | | | | |
| | 2 | 3 | 5 | | | | | | | | | |
| | 2 | 3 | 6 | | | | | | | | | |
| | 2 | 3 | 7 | | | | | | | | | |
| | 2 | 3 | 8 | | | | | | | | | |
| | 2 | 3 | 9 | | | | | | | | | |
| | 2 | 3 | 10 | | | | | | | | | |
| | 2 | 3 | 11 | | | | | | | | | |
| | 2 | 3 | 12 | | | | | | | | | |
| | 2 | 3 | 13 | | | | | | | | | |
| | 2 | 3 | 14 | | | | | | | | | |
| | 2 | 3 | 15 | | | | | | | | | |
| | 2 | 3 | 16 | | | | | | | | | |
| | 2 | 3 | 17 | | | | | | | | | |
| | 2 | 3 | 18 | | | | | | | | | |
| | 2 | 3 | 19 | | | | | | | | | |
| | 2 | 3 | 20 | | | | | | | | | |
| | 2 | 3 | 21 | | | | | | | | | |
| | 2 | 3 | 22 | | | | | | | | | |
| | 2 | 3 | 23 | | | | | | | | | |
| | 2 | 3 | 24 | | | | | | | | | |
| | 2 | 4 | 1 | | | | | | | | | |
| | 2 | 4 | 2 | | | | | | | | | |
| | 2 | 4 | 3 | | | | | | | | | |
| | 2 | 4 | 4 | | | | | | | | | |
| | 2 | 4 | 5 | | | | | | | | | |
| | 2 | 4 | 6 | | | | | | | | | |
| | 2 | 4 | 7 | | | | | | | | | |
| | 2 | 4 | 8 | | | | | | | | | |
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| | 2 | 4 | 10 | | | | | | | | | |
| | 2 | 4 | 11 | | | | | | | | | |
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| | 2 | 4 | 14 | | | | | | | | | |
| | 2 | 4 | 15 | | | | | | | | | |
| | 2 | 4 | 16 | | | | | | | | | |
| | 2 | 4 | 17 | | | | | | | | | |
| | 2 | 4 | 18 | | | | | | | | | |
| | 2 | 4 | 19 | | | | | | | | | |
| | 2 | 4 | 20 | | | | | | | | | |
| | 2 | 4 | 21 | | | | | | | | | |
| | 2 | 4 | 22 | | | | | | | | | |
| | 2 | 4 | 23 | | | | | | | | | |
| | 2 | 4 | 24 | | | | | | | | | |
| | 2 | 5 | 1 | | | | | | | | | |
| | 2 | 5 | 2 | | | | | | | | | |
| | 2 | 5 | 3 | | | | | | | | | |
| | 2 | 5 | 4 | | | | | | | | | |
| | 2 | 5 | 5 | | | | | | | | | |
| | 2 | 5 | 6 | | | | | | | | | |
| | 2 | 5 | 7 | | | | | | | | | |
| | 2 | 5 | 8 | | | | | | | | | |
| | 2 | 5 | 9 | | | | | | | | | |
| | 2 | 5 | 10 | | | | | | | | | |
| | 2 | 5 | 11 | | | | | | | | | |
| | 2 | 5 | 12 | | | | | | | | | |
| | 2 | 5 | 13 | | | | | | | | | |
| | 2 | 5 | 14 | | | | | | | | | |
| | 2 | 5 | 15 | | | | | | | | | |
| | 2 | 5 | 16 | | | | | | | | | |
| | 2 | 5 | 17 | | | | | | | | | |
| | 2 | 5 | 18 | | | | | | | | | |
| | 2 | 5 | 19 | | | | | | | | | |
| | 2 | 5 | 20 | | | | | | | | | |
| | 2 | 5 | 21 | | | | | | | | | |
| | 2 | 5 | 22 | | | | | | | | | |
| | 2 | 5 | 23 | | | | | | | | | |
| | 2 | 5 | 24 | | | | | | | | | |
| | 2 | 6 | 1 | | | | | | | | | |
| | 2 | 6 | 2 | | | | | | | | | |
| | 2 | 6 | 3 | | | | | | | | | |
| | 2 | 6 | 4 | | | | | | | | | |
| | 2 | 6 | 5 | | | | | | | | | |
| | 2 | 6 | 6 | | | | | | | | | |
| | 2 | 6 | 7 | | | | | | | | | |
| | 2 | 6 | 8 | | | | | | | | | |
| | 2 | 6 | 9 | | | | | | | | | |
| | 2 | 6 | 10 | | | | | | | | | |
| | 2 | 6 | 11 | | | | | | | | | |
| | 2 | 6 | 12 | | | | | | | | | |
| | 2 | 6 | 13 | | | | | | | | | |
| | 2 | 6 | 14 | | | | | | | | | |
| | 2 | 6 | 15 | | | | | | | | | |
| | 2 | 6 | 16 | | | | | | | | | |
| | 2 | 6 | 17 | | | | | | | | | |
| | 2 | 6 | 18 | | | | | | | | | |
| | 2 | 6 | 19 | | | | | | | | | |
| | 2 | 6 | 20 | | | | | | | | | |
| | 2 | 6 | 21 | | | | | | | | | |
| | 2 | 6 | 22 | | | | | | | | | |
| | 2 | 6 | 23 | | | | | | | | | |
| | 2 | 6 | 24 | | | | | | | | | |
| | 2 | 7 | 1 | | | | | | | | | |
| | 2 | 7 | 2 | | | | | | | | | |
| | 2 | 7 | 3 | | | | | | | | | |
| | 2 | 7 | 4 | | | | | | | | | |
| | 2 | 7 | 5 | | | | | | | | | |
| | 2 | 7 | 6 | | | | | | | | | |
| | 2 | 7 | 7 | | | | | | | | | |
| | 2 | 7 | 8 | | | | | | | | | |
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| | 2 | 7 | 10 | | | | | | | | | |
| | 2 | 7 | 11 | | | | | | | | | |
| | 2 | 7 | 12 | | | | | | | | | |
| | 2 | 7 | 13 | | | | | | | | | |
| | 2 | 7 | 14 | | | | | | | | | |
| | 2 | 7 | 15 | | | | | | | | | |
| | 2 | 7 | 16 | | | | | | | | | |
| | 2 | 7 | 17 | | | | | | | | | |
| | 2 | 7 | 18 | | | | | | | | | |
| | 2 | 7 | 19 | | | | | | | | | |
| | 2 | 7 | 20 | | | | | | | | | |
| | 2 | 7 | 21 | | | | | | | | | |
| | 2 | 7 | 22 | | | | | | | | | |
| | 2 | 7 | 23 | | | | | | | | | |
| | 2 | 7 | 24 | | | | | | | | | |
| | 2 | 8 | 1 | | | | | | | | | |
| | 2 | 8 | 2 | | | | | | | | | |
| | 2 | 8 | 3 | | | | | | | | | |
| | 2 | 8 | 4 | | | | | | | | | |
| | 2 | 8 | 5 | | | | | | | | | |
| | 2 | 8 | 6 | | | | | | | | | |
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| | 2 | 8 | 8 | | | | | | | | | |
| | 2 | 8 | 9 | | | | | | | | | |
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| | 2 | 8 | 14 | | | | | | | | | |
| | 2 | 8 | 15 | | | | | | | | | |
| | 2 | 8 | 16 | | | | | | | | | |
| | 2 | 8 | 17 | | | | | | | | | |
| | 2 | 8 | 18 | | | | | | | | | |
| | 2 | 8 | 19 | | | | | | | | | |
| | 2 | 8 | 20 | | | | | | | | | |
| | 2 | 8 | 21 | | | | | | | | | |
| | 2 | 8 | 22 | | | | | | | | | |
| | 2 | 8 | 23 | | | | | | | | | |
| | 2 | 8 | 24 | | | | | | | | | |
| | 2 | 9 | 1 | | | | | | | | | |
| | 2 | 9 | 2 | | | | | | | | | |
| | 2 | 9 | 3 | | | | | | | | | |
| | 2 | 9 | 4 | | | | | | | | | |
| | 2 | 9 | 5 | | | | | | | | | |
| | 2 | 9 | 6 | | | | | | | | | |
| | 2 | 9 | 7 | | | | | | | | | |
| | 2 | 9 | 8 | | | | | | | | | |
| | 2 | 9 | 9 | | | | | | | | | |
| | 2 | 9 | 10 | | | | | | | | | |
| | 2 | 9 | 11 | | | | | | | | | |
| | 2 | 9 | 12 | | | | | | | | | |
| | 2 | 9 | 13 | | | | | | | | | |
| | 2 | 9 | 14 | | | | | | | | | |
| | 2 | 9 | 15 | | | | | | | | | |
| | 2 | 9 | 16 | | | | | | | | | |
| | 2 | 9 | 17 | | | | | | | | | |
| | 2 | 9 | 18 | | | | | | | | | |
| | 2 | 9 | 19 | | | | | | | | | |
| | 2 | 9 | 20 | | | | | | | | | |
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| | 2 | 9 | 22 | | | | | | | | | |
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Demand Inputs

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| | | 2 | 9 | 24 | | | | | | | | | |
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| | | 2 | 10 | 2 | | | | | | | | | |
| | | 2 | 10 | 3 | | | | | | | | | |
| | | 2 | 10 | 4 | | | | | | | | | |
| | | 2 | 10 | 5 | | | | | | | | | |
| | | 2 | 10 | 6 | | | | | | | | | |
| | | 2 | 10 | 7 | | | | | | | | | |
| | | 2 | 10 | 8 | | | | | | | | | |
| | | 2 | 10 | 9 | | | | | | | | | |
| | | 2 | 10 | 10 | | | | | | | | | |
| | | 2 | 10 | 11 | | | | | | | | | |
| | | 2 | 10 | 12 | | | | | | | | | |
| | | 2 | 10 | 13 | | | | | | | | | |
| | | 2 | 10 | 14 | | | | | | | | | |
| | | 2 | 10 | 15 | | | | | | | | | |
| | | 2 | 10 | 16 | | | | | | | | | |
| | | 2 | 10 | 17 | | | | | | | | | |
| | | 2 | 10 | 18 | | | | | | | | | |
| | | 2 | 10 | 19 | | | | | | | | | |
| | | 2 | 10 | 20 | | | | | | | | | |
| | | 2 | 10 | 21 | | | | | | | | | |
| | | 2 | 10 | 22 | | | | | | | | | |
| | | 2 | 10 | 23 | | | | | | | | | |
| | | 2 | 10 | 24 | | | | | | | | | |
| | | 2 | 11 | 1 | | | | | | | | | |
| | | 2 | 11 | 2 | | | | | | | | | |
| | | 2 | 11 | 3 | | | | | | | | | |
| | | 2 | 11 | 4 | | | | | | | | | |
| | | 2 | 11 | 5 | | | | | | | | | |
| | | 2 | 11 | 6 | | | | | | | | | |
| | | 2 | 11 | 7 | | | | | | | | | |
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| | | 2 | 11 | 9 | | | | | | | | | |
| | | 2 | 11 | 10 | | | | | | | | | |
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| | | 2 | 11 | 14 | | | | | | | | | |
| | | 2 | 11 | 15 | | | | | | | | | |
| | | 2 | 11 | 16 | | | | | | | | | |
| | | 2 | 11 | 17 | | | | | | | | | |
| | | 2 | 11 | 18 | | | | | | | | | |
| | | 2 | 11 | 19 | | | | | | | | | |
| | | 2 | 11 | 20 | | | | | | | | | |
| | | 2 | 11 | 21 | | | | | | | | | |
| | | 2 | 11 | 22 | | | | | | | | | |
| | | 2 | 11 | 23 | | | | | | | | | |
| | | 2 | 11 | 24 | | | | | | | | | |
| | | 2 | 12 | 1 | | | | | | | | | |
| | | 2 | 12 | 2 | | | | | | | | | |
| | | 2 | 12 | 3 | | | | | | | | | |
| | | 2 | 12 | 4 | | | | | | | | | |
| | | 2 | 12 | 5 | | | | | | | | | |
| | | 2 | 12 | 6 | | | | | | | | | |
| | | 2 | 12 | 7 | | | | | | | | | |
| | | 2 | 12 | 8 | | | | | | | | | |
| | | 2 | 12 | 9 | | | | | | | | | |
| | | 2 | 12 | 10 | | | | | | | | | |
| | | 2 | 12 | 11 | | | | | | | | | |
| | | 2 | 12 | 12 | | | | | | | | | |
| | | 2 | 12 | 13 | | | | | | | | | |
| | | 2 | 12 | 14 | | | | | | | | | |
| | | 2 | 12 | 15 | | | | | | | | | |
| | | 2 | 12 | 16 | | | | | | | | | |
| | | 2 | 12 | 17 | | | | | | | | | |
| | | 2 | 12 | 18 | | | | | | | | | |
| | | 2 | 12 | 19 | | | | | | | | | |
| | | 2 | 12 | 20 | | | | | | | | | |
| | | 2 | 12 | 21 | | | | | | | | | |
| | | 2 | 12 | 22 | | | | | | | | | |
| | | 2 | 12 | 23 | | | | | | | | | |
| | | 2 | 12 | 24 | | | | | | | | | |
| | | 2 | 13 | 1 | | | | | | | | | |
| | | 2 | 13 | 2 | | | | | | | | | |
| | | 2 | 13 | 3 | | | | | | | | | |
| | | 2 | 13 | 4 | | | | | | | | | |
| | | 2 | 13 | 5 | | | | | | | | | |
| | | 2 | 13 | 6 | | | | | | | | | |
| | | 2 | 13 | 7 | | | | | | | | | |
| | | 2 | 13 | 8 | | | | | | | | | |
| | | 2 | 13 | 9 | | | | | | | | | |
| | | 2 | 13 | 10 | | | | | | | | | |
| | | 2 | 13 | 11 | | | | | | | | | |
| | | 2 | 13 | 12 | | | | | | | | | |
| | | 2 | 13 | 13 | | | | | | | | | |
| | | 2 | 13 | 14 | | | | | | | | | |
| | | 2 | 13 | 15 | | | | | | | | | |
| | | 2 | 13 | 16 | | | | | | | | | |
| | | 2 | 13 | 17 | | | | | | | | | |
| | | 2 | 13 | 18 | | | | | | | | | |
| | | 2 | 13 | 19 | | | | | | | | | |
| | | 2 | 13 | 20 | | | | | | | | | |
| | | 2 | 13 | 21 | | | | | | | | | |
| | | 2 | 13 | 22 | | | | | | | | | |
| | | 2 | 13 | 23 | | | | | | | | | |
| | | 2 | 13 | 24 | | | | | | | | | |
| | | 2 | 14 | 1 | | | | | | | | | |
| | | 2 | 14 | 2 | | | | | | | | | |
| | | 2 | 14 | 3 | | | | | | | | | |
| | | 2 | 14 | 4 | | | | | | | | | |
| | | 2 | 14 | 5 | | | | | | | | | |
| | | 2 | 14 | 6 | | | | | | | | | |
| | | 2 | 14 | 7 | | | | | | | | | |
| | | 2 | 14 | 8 | | | | | | | | | |
| | | 2 | 14 | 9 | | | | | | | | | |
| | | 2 | 14 | 10 | | | | | | | | | |
| | | 2 | 14 | 11 | | | | | | | | | |
| | | 2 | 14 | 12 | | | | | | | | | |
| | | 2 | 14 | 13 | | | | | | | | | |
| | | 2 | 14 | 14 | | | | | | | | | |
| | | 2 | 14 | 15 | | | | | | | | | |
| | | 2 | 14 | 16 | | | | | | | | | |
| | | 2 | 14 | 17 | | | | | | | | | |
| | | 2 | 14 | 18 | | | | | | | | | |
| | | 2 | 14 | 19 | | | | | | | | | |
| | | 2 | 14 | 20 | | | | | | | | | |
| | | 2 | 14 | 21 | | | | | | | | | |
| | | 2 | 14 | 22 | | | | | | | | | |
| | | 2 | 14 | 23 | | | | | | | | | |
| | | 2 | 14 | 24 | | | | | | | | | |
| | | 2 | 15 | 1 | | | | | | | | | |
| | | 2 | 15 | 2 | | | | | | | | | |
| | | 2 | 15 | 3 | | | | | | | | | |
| | | 2 | 15 | 4 | | | | | | | | | |
| | | 2 | 15 | 5 | | | | | | | | | |
| | | 2 | 15 | 6 | | | | | | | | | |
| | | 2 | 15 | 7 | | | | | | | | | |
| | | 2 | 15 | 8 | | | | | | | | | |
| | | 2 | 15 | 9 | | | | | | | | | |
| | | 2 | 15 | 10 | | | | | | | | | |
| | | 2 | 15 | 11 | | | | | | | | | |
| | | 2 | 15 | 12 | | | | | | | | | |
| | | 2 | 15 | 13 | | | | | | | | | |
| | | 2 | 15 | 14 | | | | | | | | | |
| | | 2 | 15 | 15 | | | | | | | | | |
| | | 2 | 15 | 16 | | | | | | | | | |
| | | 2 | 15 | 17 | | | | | | | | | |
| | | 2 | 15 | 18 | | | | | | | | | |
| | | 2 | 15 | 19 | | | | | | | | | |
| | | 2 | 15 | 20 | | | | | | | | | |
| | | 2 | 15 | 21 | | | | | | | | | |
| | | 2 | 15 | 22 | | | | | | | | | |
| | | 2 | 15 | 23 | | | | | | | | | |
| | | 2 | 15 | 24 | | | | | | | | | |
| | | 2 | 16 | 1 | | | | | | | | | |
| | | 2 | 16 | 2 | | | | | | | | | |
| | | 2 | 16 | 3 | | | | | | | | | |
| | | 2 | 16 | 4 | | | | | | | | | |
| | | 2 | 16 | 5 | | | | | | | | | |
| | | 2 | 16 | 6 | | | | | | | | | |
| | | 2 | 16 | 7 | | | | | | | | | |
| | | 2 | 16 | 8 | | | | | | | | | |
| | | 2 | 16 | 9 | | | | | | | | | |
| | | 2 | 16 | 10 | | | | | | | | | |
| | | 2 | 16 | 11 | | | | | | | | | |
| | | 2 | 16 | 12 | | | | | | | | | |
| | | 2 | 16 | 13 | | | | | | | | | |
| | | 2 | 16 | 14 | | | | | | | | | |
| | | 2 | 16 | 15 | | | | | | | | | |
| | | 2 | 16 | 16 | | | | | | | | | |
| | | 2 | 16 | 17 | | | | | | | | | |
| | | 2 | 16 | 18 | | | | | | | | | |
| | | 2 | 16 | 19 | | | | | | | | | |
| | | 2 | 16 | 20 | | | | | | | | | |
| | | 2 | 16 | 21 | | | | | | | | | |
| | | 2 | 16 | 22 | | | | | | | | | |
| | | 2 | 16 | 23 | | | | | | | | | |
| | | 2 | 16 | 24 | | | | | | | | | |
| | | 2 | 17 | 1 | | | | | | | | | |
| | | 2 | 17 | 2 | | | | | | | | | |
| | | 2 | 17 | 3 | | | | | | | | | |
| | | 2 | 17 | 4 | | | | | | | | | |
| | | 2 | 17 | 5 | | | | | | | | | |
| | | 2 | 17 | 6 | | | | | | | | | |
| | | 2 | 17 | 7 | | | | | | | | | |
| | | 2 | 17 | 8 | | | | | | | | | |
| | | 2 | 17 | 9 | | | | | | | | | |
| | | 2 | 17 | 10 | | | | | | | | | |
| | | 2 | 17 | 11 | | | | | | | | | |
| | | 2 | 17 | 12 | | | | | | | | | |
| | | 2 | 17 | 13 | | | | | | | | | |
| | | 2 | 17 | 14 | | | | | | | | | |
| | | 2 | 17 | 15 | | | | | | | | | |
| | | 2 | 17 | 16 | | | | | | | | | |
| | | 2 | 17 | 17 | | | | | | | | | |
| | | 2 | 17 | 18 | | | | | | | | | |
| | | 2 | 17 | 19 | | | | | | | | | |
| | | 2 | 17 | 20 | | | | | | | | | |
| | | 2 | 17 | 21 | | | | | | | | | |
| | | 2 | 17 | 22 | | | | | | | | | |
| | | 2 | 17 | 23 | | | | | | | | | |
| | | 2 | 17 | 24 | | | | | | | | | |
| | | 2 | 18 | 1 | | | | | | | | | |
| | | 2 | 18 | 2 | | | | | | | | | |
| | | 2 | 18 | 3 | | | | | | | | | |
| | | 2 | 18 | 4 | | | | | | | | | |
| | | 2 | 18 | 5 | | | | | | | | | |
| | | 2 | 18 | 6 | | | | | | | | | |
| | | 2 | 18 | 7 | | | | | | | | | |
| | | 2 | 18 | 8 | | | | | | | | | |
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Demand Inputs

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| | | 2 | 18 | 11 | | | | | | | | | |
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| | | 2 | 18 | 13 | | | | | | | | | |
| | | 2 | 18 | 14 | | | | | | | | | |
| | | 2 | 18 | 15 | | | | | | | | | |
| | | 2 | 18 | 16 | | | | | | | | | |
| | | 2 | 18 | 17 | | | | | | | | | |
| | | 2 | 18 | 18 | | | | | | | | | |
| | | 2 | 18 | 19 | | | | | | | | | |
| | | 2 | 18 | 20 | | | | | | | | | |
| | | 2 | 18 | 21 | | | | | | | | | |
| | | 2 | 18 | 22 | | | | | | | | | |
| | | 2 | 18 | 23 | | | | | | | | | |
| | | 2 | 18 | 24 | | | | | | | | | |
| | | 2 | 19 | 1 | | | | | | | | | |
| | | 2 | 19 | 2 | | | | | | | | | |
| | | 2 | 19 | 3 | | | | | | | | | |
| | | 2 | 19 | 4 | | | | | | | | | |
| | | 2 | 19 | 5 | | | | | | | | | |
| | | 2 | 19 | 6 | | | | | | | | | |
| | | 2 | 19 | 7 | | | | | | | | | |
| | | 2 | 19 | 8 | | | | | | | | | |
| | | 2 | 19 | 9 | | | | | | | | | |
| | | 2 | 19 | 10 | | | | | | | | | |
| | | 2 | 19 | 11 | | | | | | | | | |
| | | 2 | 19 | 12 | | | | | | | | | |
| | | 2 | 19 | 13 | | | | | | | | | |
| | | 2 | 19 | 14 | | | | | | | | | |
| | | 2 | 19 | 15 | | | | | | | | | |
| | | 2 | 19 | 16 | | | | | | | | | |
| | | 2 | 19 | 17 | | | | | | | | | |
| | | 2 | 19 | 18 | | | | | | | | | |
| | | 2 | 19 | 19 | | | | | | | | | |
| | | 2 | 19 | 20 | | | | | | | | | |
| | | 2 | 19 | 21 | | | | | | | | | |
| | | 2 | 19 | 22 | | | | | | | | | |
| | | 2 | 19 | 23 | | | | | | | | | |
| | | 2 | 19 | 24 | | | | | | | | | |
| | | 2 | 20 | 1 | | | | | | | | | |
| | | 2 | 20 | 2 | | | | | | | | | |
| | | 2 | 20 | 3 | | | | | | | | | |
| | | 2 | 20 | 4 | | | | | | | | | |
| | | 2 | 20 | 5 | | | | | | | | | |
| | | 2 | 20 | 6 | | | | | | | | | |
| | | 2 | 20 | 7 | | | | | | | | | |
| | | 2 | 20 | 8 | | | | | | | | | |
| | | 2 | 20 | 9 | | | | | | | | | |
| | | 2 | 20 | 10 | | | | | | | | | |
| | | 2 | 20 | 11 | | | | | | | | | |
| | | 2 | 20 | 12 | | | | | | | | | |
| | | 2 | 20 | 13 | | | | | | | | | |
| | | 2 | 20 | 14 | | | | | | | | | |
| | | 2 | 20 | 15 | | | | | | | | | |
| | | 2 | 20 | 16 | | | | | | | | | |
| | | 2 | 20 | 17 | | | | | | | | | |
| | | 2 | 20 | 18 | | | | | | | | | |
| | | 2 | 20 | 19 | | | | | | | | | |
| | | 2 | 20 | 20 | | | | | | | | | |
| | | 2 | 20 | 21 | | | | | | | | | |
| | | 2 | 20 | 22 | | | | | | | | | |
| | | 2 | 20 | 23 | | | | | | | | | |
| | | 2 | 20 | 24 | | | | | | | | | |
| | | 2 | 21 | 1 | | | | | | | | | |
| | | 2 | 21 | 2 | | | | | | | | | |
| | | 2 | 21 | 3 | | | | | | | | | |
| | | 2 | 21 | 4 | | | | | | | | | |
| | | 2 | 21 | 5 | | | | | | | | | |
| | | 2 | 21 | 6 | | | | | | | | | |
| | | 2 | 21 | 7 | | | | | | | | | |
| | | 2 | 21 | 8 | | | | | | | | | |
| | | 2 | 21 | 9 | | | | | | | | | |
| | | 2 | 21 | 10 | | | | | | | | | |
| | | 2 | 21 | 11 | | | | | | | | | |
| | | 2 | 21 | 12 | | | | | | | | | |
| | | 2 | 21 | 13 | | | | | | | | | |
| | | 2 | 21 | 14 | | | | | | | | | |
| | | 2 | 21 | 15 | | | | | | | | | |
| | | 2 | 21 | 16 | | | | | | | | | |
| | | 2 | 21 | 17 | | | | | | | | | |
| | | 2 | 21 | 18 | | | | | | | | | |
| | | 2 | 21 | 19 | | | | | | | | | |
| | | 2 | 21 | 20 | | | | | | | | | |
| | | 2 | 21 | 21 | | | | | | | | | |
| | | 2 | 21 | 22 | | | | | | | | | |
| | | 2 | 21 | 23 | | | | | | | | | |
| | | 2 | 21 | 24 | | | | | | | | | |
| | | 2 | 22 | 1 | | | | | | | | | |
| | | 2 | 22 | 2 | | | | | | | | | |
| | | 2 | 22 | 3 | | | | | | | | | |
| | | 2 | 22 | 4 | | | | | | | | | |
| | | 2 | 22 | 5 | | | | | | | | | |
| | | 2 | 22 | 6 | | | | | | | | | |
| | | 2 | 22 | 7 | | | | | | | | | |
| | | 2 | 22 | 8 | | | | | | | | | |
| | | 2 | 22 | 9 | | | | | | | | | |
| | | 2 | 22 | 10 | | | | | | | | | |
| | | 2 | 22 | 11 | | | | | | | | | |
| | | 2 | 22 | 12 | | | | | | | | | |
| | | 2 | 22 | 13 | | | | | | | | | |
| | | 2 | 22 | 14 | | | | | | | | | |
| | | 2 | 22 | 15 | | | | | | | | | |
| | | 2 | 22 | 16 | | | | | | | | | |
| | | 2 | 22 | 17 | | | | | | | | | |
| | | 2 | 22 | 18 | | | | | | | | | |
| | | 2 | 22 | 19 | | | | | | | | | |
| | | 2 | 22 | 20 | | | | | | | | | |
| | | 2 | 22 | 21 | | | | | | | | | |
| | | 2 | 22 | 22 | | | | | | | | | |
| | | 2 | 22 | 23 | | | | | | | | | |
| | | 2 | 22 | 24 | | | | | | | | | |
| | | 2 | 23 | 1 | | | | | | | | | |
| | | 2 | 23 | 2 | | | | | | | | | |
| | | 2 | 23 | 3 | | | | | | | | | |
| | | 2 | 23 | 4 | | | | | | | | | |
| | | 2 | 23 | 5 | | | | | | | | | |
| | | 2 | 23 | 6 | | | | | | | | | |
| | | 2 | 23 | 7 | | | | | | | | | |
| | | 2 | 23 | 8 | | | | | | | | | |
| | | 2 | 23 | 9 | | | | | | | | | |
| | | 2 | 23 | 10 | | | | | | | | | |
| | | 2 | 23 | 11 | | | | | | | | | |
| | | 2 | 23 | 12 | | | | | | | | | |
| | | 2 | 23 | 13 | | | | | | | | | |
| | | 2 | 23 | 14 | | | | | | | | | |
| | | 2 | 23 | 15 | | | | | | | | | |
| | | 2 | 23 | 16 | | | | | | | | | |
| | | 2 | 23 | 17 | | | | | | | | | |
| | | 2 | 23 | 18 | | | | | | | | | |
| | | 2 | 23 | 19 | | | | | | | | | |
| | | 2 | 23 | 20 | | | | | | | | | |
| | | 2 | 23 | 21 | | | | | | | | | |
| | | 2 | 23 | 22 | | | | | | | | | |
| | | 2 | 23 | 23 | | | | | | | | | |
| | | 2 | 23 | 24 | | | | | | | | | |
| | | 2 | 24 | 1 | | | | | | | | | |
| | | 2 | 24 | 2 | | | | | | | | | |
| | | 2 | 24 | 3 | | | | | | | | | |
| | | 2 | 24 | 4 | | | | | | | | | |
| | | 2 | 24 | 5 | | | | | | | | | |
| | | 2 | 24 | 6 | | | | | | | | | |
| | | 2 | 24 | 7 | | | | | | | | | |
| | | 2 | 24 | 8 | | | | | | | | | |
| | | 2 | 24 | 9 | | | | | | | | | |
| | | 2 | 24 | 10 | | | | | | | | | |
| | | 2 | 24 | 11 | | | | | | | | | |
| | | 2 | 24 | 12 | | | | | | | | | |
| | | 2 | 24 | 13 | | | | | | | | | |
| | | 2 | 24 | 14 | | | | | | | | | |
| | | 2 | 24 | 15 | | | | | | | | | |
| | | 2 | 24 | 16 | | | | | | | | | |
| | | 2 | 24 | 17 | | | | | | | | | |
| | | 2 | 24 | 18 | | | | | | | | | |
| | | 2 | 24 | 19 | | | | | | | | | |
| | | 2 | 24 | 20 | | | | | | | | | |
| | | 2 | 24 | 21 | | | | | | | | | |
| | | 2 | 24 | 22 | | | | | | | | | |
| | | 2 | 24 | 23 | | | | | | | | | |
| | | 2 | 24 | 24 | | | | | | | | | |
| | | 2 | 25 | 1 | | | | | | | | | |
| | | 2 | 25 | 2 | | | | | | | | | |
| | | 2 | 25 | 3 | | | | | | | | | |
| | | 2 | 25 | 4 | | | | | | | | | |
| | | 2 | 25 | 5 | | | | | | | | | |
| | | 2 | 25 | 6 | | | | | | | | | |
| | | 2 | 25 | 7 | | | | | | | | | |
| | | 2 | 25 | 8 | | | | | | | | | |
| | | 2 | 25 | 9 | | | | | | | | | |
| | | 2 | 25 | 10 | | | | | | | | | |
| | | 2 | 25 | 11 | | | | | | | | | |
| | | 2 | 25 | 12 | | | | | | | | | |
| | | 2 | 25 | 13 | | | | | | | | | |
| | | 2 | 25 | 14 | | | | | | | | | |
| | | 2 | 25 | 15 | | | | | | | | | |
| | | 2 | 25 | 16 | | | | | | | | | |
| | | 2 | 25 | 17 | | | | | | | | | |
| | | 2 | 25 | 18 | | | | | | | | | |
| | | 2 | 25 | 19 | | | | | | | | | |
| | | 2 | 25 | 20 | | | | | | | | | |
| | | 2 | 25 | 21 | | | | | | | | | |
| | | 2 | 25 | 22 | | | | | | | | | |
| | | 2 | 25 | 23 | | | | | | | | | |
| | | 2 | 25 | 24 | | | | | | | | | |
| | | 2 | 26 | 1 | | | | | | | | | |
| | | 2 | 26 | 2 | | | | | | | | | |
| | | 2 | 26 | 3 | | | | | | | | | |
| | | 2 | 26 | 4 | | | | | | | | | |
| | | 2 | 26 | 5 | | | | | | | | | |
| | | 2 | 26 | 6 | | | | | | | | | |
| | | 2 | 26 | 7 | | | | | | | | | |
| | | 2 | 26 | 8 | | | | | | | | | |
| | | 2 | 26 | 9 | | | | | | | | | |
| | | 2 | 26 | 10 | | | | | | | | | |
| | | 2 | 26 | 11 | | | | | | | | | |
| | | 2 | 26 | 12 | | | | | | | | | |
| | | 2 | 26 | 13 | | | | | | | | | |
| | | 2 | 26 | 14 | | | | | | | | | |
| | | 2 | 26 | 15 | | | | | | | | | |
| | | 2 | 26 | 16 | | | | | | | | | |
| | | 2 | 26 | 17 | | | | | | | | | |
| | | 2 | 26 | 18 | | | | | | | | | |
| | | 2 | 26 | 19 | | | | | | | | | |
| | | 2 | 26 | 20 | | | | | | | | | |
| | | 2 | 26 | 21 | | | | | | | | | |

Demand Inputs

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| | 2 | 26 | 22 | | | | | | | | | | |
| | 2 | 26 | 23 | | | | | | | | | | |
| | 2 | 26 | 24 | | | | | | | | | | |
| | 2 | 27 | 1 | | | | | | | | | | |
| | 2 | 27 | 2 | | | | | | | | | | |
| | 2 | 27 | 3 | | | | | | | | | | |
| | 2 | 27 | 4 | | | | | | | | | | |
| | 2 | 27 | 5 | | | | | | | | | | |
| | 2 | 27 | 6 | | | | | | | | | | |
| | 2 | 27 | 7 | | | | | | | | | | |
| | 2 | 27 | 8 | | | | | | | | | | |
| | 2 | 27 | 9 | | | | | | | | | | |
| | 2 | 27 | 10 | | | | | | | | | | |
| | 2 | 27 | 11 | | | | | | | | | | |
| | 2 | 27 | 12 | | | | | | | | | | |
| | 2 | 27 | 13 | | | | | | | | | | |
| | 2 | 27 | 14 | | | | | | | | | | |
| | 2 | 27 | 15 | | | | | | | | | | |
| | 2 | 27 | 16 | | | | | | | | | | |
| | 2 | 27 | 17 | | | | | | | | | | |
| | 2 | 27 | 18 | | | | | | | | | | |
| | 2 | 27 | 19 | | | | | | | | | | |
| | 2 | 27 | 20 | | | | | | | | | | |
| | 2 | 27 | 21 | | | | | | | | | | |
| | 2 | 27 | 22 | | | | | | | | | | |
| | 2 | 27 | 23 | | | | | | | | | | |
| | 2 | 27 | 24 | | | | | | | | | | |
| | 2 | 28 | 1 | | | | | | | | | | |
| | 2 | 28 | 2 | | | | | | | | | | |
| | 2 | 28 | 3 | | | | | | | | | | |
| | 2 | 28 | 4 | | | | | | | | | | |
| | 2 | 28 | 5 | | | | | | | | | | |
| | 2 | 28 | 6 | | | | | | | | | | |
| | 2 | 28 | 7 | | | | | | | | | | |
| | 2 | 28 | 8 | | | | | | | | | | |
| | 2 | 28 | 9 | | | | | | | | | | |
| | 2 | 28 | 10 | | | | | | | | | | |
| | 2 | 28 | 11 | | | | | | | | | | |
| | 2 | 28 | 12 | | | | | | | | | | |
| | 2 | 28 | 13 | | | | | | | | | | |
| | 2 | 28 | 14 | | | | | | | | | | |
| | 2 | 28 | 15 | | | | | | | | | | |
| | 2 | 28 | 16 | | | | | | | | | | |
| | 2 | 28 | 17 | | | | | | | | | | |
| | 2 | 28 | 18 | | | | | | | | | | |
| | 2 | 28 | 19 | | | | | | | | | | |
| | 2 | 28 | 20 | | | | | | | | | | |
| | 2 | 28 | 21 | | | | | | | | | | |
| | 2 | 28 | 22 | | | | | | | | | | |
| | 2 | 28 | 23 | | | | | | | | | | |
| | 2 | 28 | 24 | | | | | | | | | | |
| | 3 | 1 | 1 | | | | | | | | | | |
| | 3 | 1 | 2 | | | | | | | | | | |
| | 3 | 1 | 3 | | | | | | | | | | |
| | 3 | 1 | 4 | | | | | | | | | | |
| | 3 | 1 | 5 | | | | | | | | | | |
| | 3 | 1 | 6 | | | | | | | | | | |
| | 3 | 1 | 7 | | | | | | | | | | |
| | 3 | 1 | 8 | | | | | | | | | | |
| | 3 | 1 | 9 | | | | | | | | | | |
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| | 3 | 1 | 12 | | | | | | | | | | |
| | 3 | 1 | 13 | | | | | | | | | | |
| | 3 | 1 | 14 | | | | | | | | | | |
| | 3 | 1 | 15 | | | | | | | | | | |
| | 3 | 1 | 16 | | | | | | | | | | |
| | 3 | 1 | 17 | | | | | | | | | | |
| | 3 | 1 | 18 | | | | | | | | | | |
| | 3 | 1 | 19 | | | | | | | | | | |
| | 3 | 1 | 20 | | | | | | | | | | |
| | 3 | 1 | 21 | | | | | | | | | | |
| | 3 | 1 | 22 | | | | | | | | | | |
| | 3 | 1 | 23 | | | | | | | | | | |
| | 3 | 1 | 24 | | | | | | | | | | |
| | 3 | 2 | 1 | | | | | | | | | | |
| | 3 | 2 | 2 | | | | | | | | | | |
| | 3 | 2 | 3 | | | | | | | | | | |
| | 3 | 2 | 4 | | | | | | | | | | |
| | 3 | 2 | 5 | | | | | | | | | | |
| | 3 | 2 | 6 | | | | | | | | | | |
| | 3 | 2 | 7 | | | | | | | | | | |
| | 3 | 2 | 8 | | | | | | | | | | |
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| | 3 | 2 | 11 | | | | | | | | | | |
| | 3 | 2 | 12 | | | | | | | | | | |
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| | 3 | 2 | 14 | | | | | | | | | | |
| | 3 | 2 | 15 | | | | | | | | | | |
| | 3 | 2 | 16 | | | | | | | | | | |
| | 3 | 2 | 17 | | | | | | | | | | |
| | 3 | 2 | 18 | | | | | | | | | | |
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| | 3 | 2 | 20 | | | | | | | | | | |
| | 3 | 2 | 21 | | | | | | | | | | |
| | 3 | 2 | 22 | | | | | | | | | | |
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| | 3 | 3 | 1 | | | | | | | | | | |
| | 3 | 3 | 2 | | | | | | | | | | |
| | 3 | 3 | 3 | | | | | | | | | | |
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| | 3 | 3 | 22 | | | | | | | | | | |
| | 3 | 3 | 23 | | | | | | | | | | |
| | 3 | 3 | 24 | | | | | | | | | | |
| | 3 | 4 | 1 | | | | | | | | | | |
| | 3 | 4 | 2 | | | | | | | | | | |
| | 3 | 4 | 3 | | | | | | | | | | |
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| | 3 | 4 | 6 | | | | | | | | | | |
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| | 3 | 4 | 16 | | | | | | | | | | |
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| | 3 | 4 | 22 | | | | | | | | | | |
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| | 3 | 4 | 24 | | | | | | | | | | |
| | 3 | 5 | 1 | | | | | | | | | | |
| | 3 | 5 | 2 | | | | | | | | | | |
| | 3 | 5 | 3 | | | | | | | | | | |
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| | 3 | 6 | 1 | | | | | | | | | | |
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| | 3 | 6 | 19 | | | | | | | | | | |
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| | 3 | 6 | 22 | | | | | | | | | | |
| | 3 | 6 | 23 | | | | | | | | | | |
| | 3 | 6 | 24 | | | | | | | | | | |
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Demand Inputs

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| | | 3 | 8 | 24 | | | | | | | | | |
| | | 3 | 9 | 1 | | | | | | | | | |
| | | 3 | 9 | 2 | | | | | | | | | |
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| | | 3 | 9 | 4 | | | | | | | | | |
| | | 3 | 9 | 5 | | | | | | | | | |
| | | 3 | 9 | 6 | | | | | | | | | |
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| | | 3 | 9 | 10 | | | | | | | | | |
| | | 3 | 9 | 11 | | | | | | | | | |
| | | 3 | 9 | 12 | | | | | | | | | |
| | | 3 | 9 | 13 | | | | | | | | | |
| | | 3 | 9 | 14 | | | | | | | | | |
| | | 3 | 9 | 15 | | | | | | | | | |
| | | 3 | 9 | 16 | | | | | | | | | |
| | | 3 | 9 | 17 | | | | | | | | | |
| | | 3 | 9 | 18 | | | | | | | | | |
| | | 3 | 9 | 19 | | | | | | | | | |
| | | 3 | 9 | 20 | | | | | | | | | |
| | | 3 | 9 | 21 | | | | | | | | | |
| | | 3 | 9 | 22 | | | | | | | | | |
| | | 3 | 9 | 23 | | | | | | | | | |
| | | 3 | 9 | 24 | | | | | | | | | |
| | | 3 | 10 | 1 | | | | | | | | | |
| | | 3 | 10 | 2 | | | | | | | | | |
| | | 3 | 10 | 3 | | | | | | | | | |
| | | 3 | 10 | 4 | | | | | | | | | |
| | | 3 | 10 | 5 | | | | | | | | | |
| | | 3 | 10 | 6 | | | | | | | | | |
| | | 3 | 10 | 7 | | | | | | | | | |
| | | 3 | 10 | 8 | | | | | | | | | |
| | | 3 | 10 | 9 | | | | | | | | | |
| | | 3 | 10 | 10 | | | | | | | | | |
| | | 3 | 10 | 11 | | | | | | | | | |
| | | 3 | 10 | 12 | | | | | | | | | |
| | | 3 | 10 | 13 | | | | | | | | | |
| | | 3 | 10 | 14 | | | | | | | | | |
| | | 3 | 10 | 15 | | | | | | | | | |
| | | 3 | 10 | 16 | | | | | | | | | |
| | | 3 | 10 | 17 | | | | | | | | | |
| | | 3 | 10 | 18 | | | | | | | | | |
| | | 3 | 10 | 19 | | | | | | | | | |
| | | 3 | 10 | 20 | | | | | | | | | |
| | | 3 | 10 | 21 | | | | | | | | | |
| | | 3 | 10 | 22 | | | | | | | | | |
| | | 3 | 10 | 23 | | | | | | | | | |
| | | 3 | 10 | 24 | | | | | | | | | |
| | | 3 | 11 | 1 | | | | | | | | | |
| | | 3 | 11 | 2 | | | | | | | | | |
| | | 3 | 11 | 3 | | | | | | | | | |
| | | 3 | 11 | 4 | | | | | | | | | |
| | | 3 | 11 | 5 | | | | | | | | | |
| | | 3 | 11 | 6 | | | | | | | | | |
| | | 3 | 11 | 7 | | | | | | | | | |
| | | 3 | 11 | 8 | | | | | | | | | |
| | | 3 | 11 | 9 | | | | | | | | | |
| | | 3 | 11 | 10 | | | | | | | | | |
| | | 3 | 11 | 11 | | | | | | | | | |
| | | 3 | 11 | 12 | | | | | | | | | |
| | | 3 | 11 | 13 | | | | | | | | | |
| | | 3 | 11 | 14 | | | | | | | | | |
| | | 3 | 11 | 15 | | | | | | | | | |
| | | 3 | 11 | 16 | | | | | | | | | |
| | | 3 | 11 | 17 | | | | | | | | | |
| | | 3 | 11 | 18 | | | | | | | | | |
| | | 3 | 11 | 19 | | | | | | | | | |
| | | 3 | 11 | 20 | | | | | | | | | |
| | | 3 | 11 | 21 | | | | | | | | | |
| | | 3 | 11 | 22 | | | | | | | | | |
| | | 3 | 11 | 23 | | | | | | | | | |
| | | 3 | 11 | 24 | | | | | | | | | |
| | | 3 | 12 | 1 | | | | | | | | | |
| | | 3 | 12 | 2 | | | | | | | | | |
| | | 3 | 12 | 3 | | | | | | | | | |
| | | 3 | 12 | 4 | | | | | | | | | |
| | | 3 | 12 | 5 | | | | | | | | | |
| | | 3 | 12 | 6 | | | | | | | | | |
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| | | 3 | 12 | 16 | | | | | | | | | |
| | | 3 | 12 | 17 | | | | | | | | | |
| | | 3 | 12 | 18 | | | | | | | | | |
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| | | 3 | 12 | 20 | | | | | | | | | |
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| | | 3 | 12 | 22 | | | | | | | | | |
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| | | 3 | 12 | 24 | | | | | | | | | |
| | | 3 | 13 | 1 | | | | | | | | | |
| | | 3 | 13 | 2 | | | | | | | | | |
| | | 3 | 13 | 3 | | | | | | | | | |
| | | 3 | 13 | 4 | | | | | | | | | |
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| | | 3 | 13 | 6 | | | | | | | | | |
| | | 3 | 13 | 7 | | | | | | | | | |
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| | | 3 | 14 | 1 | | | | | | | | | |
| | | 3 | 14 | 2 | | | | | | | | | |
| | | 3 | 14 | 3 | | | | | | | | | |
| | | 3 | 14 | 4 | | | | | | | | | |
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| | | 3 | 14 | 6 | | | | | | | | | |
| | | 3 | 14 | 7 | | | | | | | | | |
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| | | 3 | 14 | 9 | | | | | | | | | |
| | | 3 | 14 | 10 | | | | | | | | | |
| | | 3 | 14 | 11 | | | | | | | | | |
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| | | 3 | 14 | 16 | | | | | | | | | |
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| | | 3 | 14 | 21 | | | | | | | | | |
| | | 3 | 14 | 22 | | | | | | | | | |
| | | 3 | 14 | 23 | | | | | | | | | |
| | | 3 | 14 | 24 | | | | | | | | | |
| | | 3 | 15 | 1 | | | | | | | | | |
| | | 3 | 15 | 2 | | | | | | | | | |
| | | 3 | 15 | 3 | | | | | | | | | |
| | | 3 | 15 | 4 | | | | | | | | | |
| | | 3 | 15 | 5 | | | | | | | | | |
| | | 3 | 15 | 6 | | | | | | | | | |
| | | 3 | 15 | 7 | | | | | | | | | |
| | | 3 | 15 | 8 | | | | | | | | | |
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| | | 3 | 15 | 10 | | | | | | | | | |
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| | | 3 | 15 | 13 | | | | | | | | | |
| | | 3 | 15 | 14 | | | | | | | | | |
| | | 3 | 15 | 15 | | | | | | | | | |
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| | | 3 | 15 | 24 | | | | | | | | | | |
| | | 3 | 16 | 1 | | | | | | | | | | |
| | | 3 | 16 | 2 | | | | | | | | | | |
| | | 3 | 16 | 3 | | | | | | | | | | |
| | | 3 | 16 | 4 | | | | | | | | | | |
| | | 3 | 16 | 5 | | | | | | | | | | |
| | | 3 | 16 | 6 | | | | | | | | | | |
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| | | 3 | 16 | 22 | | | | | | | | | | |
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| | | 3 | 16 | 24 | | | | | | | | | | |
| | | 3 | 17 | 1 | | | | | | | | | | |
| | | 3 | 17 | 2 | | | | | | | | | | |
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| | | 3 | 17 | 15 | | | | | | | | | | |
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| | | 3 | 17 | 17 | | | | | | | | | | |
| | | 3 | 17 | 18 | | | | | | | | | | |
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| | | 3 | 17 | 20 | | | | | | | | | | |
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| | | 3 | 17 | 22 | | | | | | | | | | |
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| | | 3 | 17 | 24 | | | | | | | | | | |
| | | 3 | 18 | 1 | | | | | | | | | | |
| | | 3 | 18 | 2 | | | | | | | | | | |
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| | | 3 | 18 | 4 | | | | | | | | | | |
| | | 3 | 18 | 5 | | | | | | | | | | |
| | | 3 | 18 | 6 | | | | | | | | | | |
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| | | 3 | 18 | 24 | | | | | | | | | | |
| | | 3 | 19 | 1 | | | | | | | | | | |
| | | 3 | 19 | 2 | | | | | | | | | | |
| | | 3 | 19 | 3 | | | | | | | | | | |
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| | | 3 | 24 | 22 | | | | | | | | | |
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| | | 3 | 25 | 2 | | | | | | | | | |
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| | | 3 | 25 | 23 | | | | | | | | | |
| | | 3 | 25 | 24 | | | | | | | | | |
| | | 3 | 26 | 1 | | | | | | | | | |
| | | 3 | 26 | 2 | | | | | | | | | |
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| | | 3 | 26 | 5 | | | | | | | | | |
| | | 3 | 26 | 6 | | | | | | | | | |
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| | | 3 | 26 | 10 | | | | | | | | | |
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| | | 3 | 26 | 12 | | | | | | | | | |
| | | 3 | 26 | 13 | | | | | | | | | |
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| | | 3 | 26 | 17 | | | | | | | | | |
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| | | 3 | 26 | 23 | | | | | | | | | |
| | | 3 | 26 | 24 | | | | | | | | | |
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| | | 3 | 27 | 2 | | | | | | | | | |
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| | | 3 | 27 | 4 | | | | | | | | | |
| | | 3 | 27 | 5 | | | | | | | | | |
| | | 3 | 27 | 6 | | | | | | | | | |
| | | 3 | 27 | 7 | | | | | | | | | |
| | | 3 | 27 | 8 | | | | | | | | | |
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| | | 3 | 27 | 13 | | | | | | | | | |
| | | 3 | 27 | 14 | | | | | | | | | |
| | | 3 | 27 | 15 | | | | | | | | | |
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| | | 3 | 27 | 18 | | | | | | | | | |
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| | | 3 | 27 | 20 | | | | | | | | | |
| | | 3 | 27 | 21 | | | | | | | | | |
| | | 3 | 27 | 22 | | | | | | | | | |
| | | 3 | 27 | 23 | | | | | | | | | |
| | | 3 | 27 | 24 | | | | | | | | | |
| | | 3 | 28 | 1 | | | | | | | | | |
| | | 3 | 28 | 2 | | | | | | | | | |
| | | 3 | 28 | 3 | | | | | | | | | |
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| | | 3 | 28 | 6 | | | | | | | | | |
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| | | 3 | 29 | 1 | | | | | | | | | |
| | | 3 | 29 | 2 | | | | | | | | | |
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| | | 3 | 30 | 2 | | | | | | | | | |
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| | | 3 | 31 | 1 | | | | | | | | | |
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| | | 4 | 3 | 5 | | | | | | | | | |
| | | 4 | 3 | 6 | | | | | | | | | |
| | | 4 | 3 | 7 | | | | | | | | | |
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| | | 4 | 3 | 20 | | | | | | | | | |
| | | 4 | 3 | 21 | | | | | | | | | |
| | | 4 | 3 | 22 | | | | | | | | | |
| | | 4 | 3 | 23 | | | | | | | | | |
| | | 4 | 3 | 24 | | | | | | | | | |
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| | | 4 | 4 | 2 | | | | | | | | | |
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| | | 4 | 5 | 1 | | | | | | | | | |
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| | | 4 | 5 | 22 | | | | | | | | | |
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| | | 4 | 6 | 22 | | | | | | | | | |
| | | 4 | 6 | 23 | | | | | | | | | |
| | | 4 | 6 | 24 | | | | | | | | | |
| | | 4 | 7 | 1 | | | | | | | | | |
| | | 4 | 7 | 2 | | | | | | | | | |
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| | | 4 | 10 | 1 | | | | | | | | | |
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| | | 4 | 10 | 19 | | | | | | | | | |
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| | | 4 | 10 | 24 | | | | | | | | | |
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| | | 4 | 11 | 4 | | | | | | | | | |
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| | | 4 | 11 | 6 | | | | | | | | | |
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| | | 4 | 11 | 12 | | | | | | | | | |
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| | | 4 | 11 | 22 | | | | | | | | | |
| | | 4 | 11 | 23 | | | | | | | | | |
| | | 4 | 11 | 24 | | | | | | | | | |
| | | 4 | 12 | 1 | | | | | | | | | |
| | | 4 | 12 | 2 | | | | | | | | | |
| | | 4 | 12 | 3 | | | | | | | | | |
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| | | 4 | 12 | 6 | | | | | | | | | |
| | | 4 | 12 | 7 | | | | | | | | | |
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| | | 4 | 12 | 15 | | | | | | | | | |
| | | 4 | 12 | 16 | | | | | | | | | |
| | | 4 | 12 | 17 | | | | | | | | | |
| | | 4 | 12 | 18 | | | | | | | | | |
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| | | 4 | 12 | 20 | | | | | | | | | |
| | | 4 | 12 | 21 | | | | | | | | | |
| | | 4 | 12 | 22 | | | | | | | | | |
| | | 4 | 12 | 23 | | | | | | | | | |
| | | 4 | 12 | 24 | | | | | | | | | |
| | | 4 | 13 | 1 | | | | | | | | | |
| | | 4 | 13 | 2 | | | | | | | | | |
| | | 4 | 13 | 3 | | | | | | | | | |
| | | 4 | 13 | 4 | | | | | | | | | |
| | | 4 | 13 | 5 | | | | | | | | | |
| | | 4 | 13 | 6 | | | | | | | | | |
| | | 4 | 13 | 7 | | | | | | | | | |
| | | 4 | 13 | 8 | | | | | | | | | |
| | | 4 | 13 | 9 | | | | | | | | | |
| | | 4 | 13 | 10 | | | | | | | | | |
| | | 4 | 13 | 11 | | | | | | | | | |
| | | 4 | 13 | 12 | | | | | | | | | |
| | | 4 | 13 | 13 | | | | | | | | | |
| | | 4 | 13 | 14 | | | | | | | | | |
| | | 4 | 13 | 15 | | | | | | | | | |
| | | 4 | 13 | 16 | | | | | | | | | |
| | | 4 | 13 | 17 | | | | | | | | | |
| | | 4 | 13 | 18 | | | | | | | | | |
| | | 4 | 13 | 19 | | | | | | | | | |
| | | 4 | 13 | 20 | | | | | | | | | |
| | | 4 | 13 | 21 | | | | | | | | | |
| | | 4 | 13 | 22 | | | | | | | | | |
| | | 4 | 13 | 23 | | | | | | | | | |
| | | 4 | 13 | 24 | | | | | | | | | |
| | | 4 | 14 | 1 | | | | | | | | | |
| | | 4 | 14 | 2 | | | | | | | | | |
| | | 4 | 14 | 3 | | | | | | | | | |
| | | 4 | 14 | 4 | | | | | | | | | |
| | | 4 | 14 | 5 | | | | | | | | | |
| | | 4 | 14 | 6 | | | | | | | | | |
| | | 4 | 14 | 7 | | | | | | | | | |
| | | 4 | 14 | 8 | | | | | | | | | |
| | | 4 | 14 | 9 | | | | | | | | | |
| | | 4 | 14 | 10 | | | | | | | | | |
| | | 4 | 14 | 11 | | | | | | | | | |
| | | 4 | 14 | 12 | | | | | | | | | |
| | | 4 | 14 | 13 | | | | | | | | | |
| | | 4 | 14 | 14 | | | | | | | | | |
| | | 4 | 14 | 15 | | | | | | | | | |
| | | 4 | 14 | 16 | | | | | | | | | |
| | | 4 | 14 | 17 | | | | | | | | | |
| | | 4 | 14 | 18 | | | | | | | | | |
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| | | 4 | 14 | 22 | | | | | | | | | |
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| | | 4 | 14 | 24 | | | | | | | | | |
| | | 4 | 15 | 1 | | | | | | | | | |
| | | 4 | 15 | 2 | | | | | | | | | |
| | | 4 | 15 | 3 | | | | | | | | | |
| | | 4 | 15 | 4 | | | | | | | | | |
| | | 4 | 15 | 5 | | | | | | | | | |
| | | 4 | 15 | 6 | | | | | | | | | |
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| | | 4 | 15 | 16 | | | | | | | | | |
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| | | 4 | 15 | 22 | | | | | | | | | |
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| | | 4 | 15 | 24 | | | | | | | | | |
| | | 4 | 16 | 1 | | | | | | | | | |
| | | 4 | 16 | 2 | | | | | | | | | |
| | | 4 | 16 | 3 | | | | | | | | | |
| | | 4 | 16 | 4 | | | | | | | | | |
| | | 4 | 16 | 5 | | | | | | | | | |
| | | 4 | 16 | 6 | | | | | | | | | |
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| | | 4 | 16 | 23 | | | | | | | | | |
| | | 4 | 16 | 24 | | | | | | | | | |
| | | 4 | 17 | 1 | | | | | | | | | |
| | | 4 | 17 | 2 | | | | | | | | | |
| | | 4 | 17 | 3 | | | | | | | | | |
| | | 4 | 17 | 4 | | | | | | | | | |
| | | 4 | 17 | 5 | | | | | | | | | |
| | | 4 | 17 | 6 | | | | | | | | | |
| | | 4 | 17 | 7 | | | | | | | | | |
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| | | 4 | 17 | 24 | | | | | | | | | |
| | | 4 | 18 | 1 | | | | | | | | | |
| | | 4 | 18 | 2 | | | | | | | | | |
| | | 4 | 18 | 3 | | | | | | | | | |
| | | 4 | 18 | 4 | | | | | | | | | |
| | | 4 | 18 | 5 | | | | | | | | | |
| | | 4 | 18 | 6 | | | | | | | | | |
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| | | 4 | 18 | 11 | | | | | | | | | |
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| | | 4 | 18 | 24 | | | | | | | | | |
| | | 4 | 19 | 1 | | | | | | | | | |
| | | 4 | 19 | 2 | | | | | | | | | |
| | | 4 | 19 | 3 | | | | | | | | | |
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| | | 4 | 19 | 21 | | | | | | | | | |
| | | 4 | 19 | 22 | | | | | | | | | |
| | | 4 | 19 | 23 | | | | | | | | | |
| | | 4 | 19 | 24 | | | | | | | | | |
| | | 4 | 20 | 1 | | | | | | | | | |
| | | 4 | 20 | 2 | | | | | | | | | |
| | | 4 | 20 | 3 | | | | | | | | | |
| | | 4 | 20 | 4 | | | | | | | | | |
| | | 4 | 20 | 5 | | | | | | | | | |
| | | 4 | 20 | 6 | | | | | | | | | |
| | | 4 | 20 | 7 | | | | | | | | | |
| | | 4 | 20 | 8 | | | | | | | | | |
| | | 4 | 20 | 9 | | | | | | | | | |
| | | 4 | 20 | 10 | | | | | | | | | |
| | | 4 | 20 | 11 | | | | | | | | | |
| | | 4 | 20 | 12 | | | | | | | | | |
| | | 4 | 20 | 13 | | | | | | | | | |
| | | 4 | 20 | 14 | | | | | | | | | |
| | | 4 | 20 | 15 | | | | | | | | | |
| | | 4 | 20 | 16 | | | | | | | | | |
| | | 4 | 20 | 17 | | | | | | | | | |
| | | 4 | 20 | 18 | | | | | | | | | |
| | | 4 | 20 | 19 | | | | | | | | | |
| | | 4 | 20 | 20 | | | | | | | | | |
| | | 4 | 20 | 21 | | | | | | | | | |
| | | 4 | 20 | 22 | | | | | | | | | |
| | | 4 | 20 | 23 | | | | | | | | | |
| | | 4 | 20 | 24 | | | | | | | | | |
| | | 4 | 21 | 1 | | | | | | | | | |
| | | 4 | 21 | 2 | | | | | | | | | |
| | | 4 | 21 | 3 | | | | | | | | | |
| | | 4 | 21 | 4 | | | | | | | | | |
| | | 4 | 21 | 5 | | | | | | | | | |
| | | 4 | 21 | 6 | | | | | | | | | |
| | | 4 | 21 | 7 | | | | | | | | | |
| | | 4 | 21 | 8 | | | | | | | | | |
| | | 4 | 21 | 9 | | | | | | | | | |
| | | 4 | 21 | 10 | | | | | | | | | |
| | | 4 | 21 | 11 | | | | | | | | | |
| | | 4 | 21 | 12 | | | | | | | | | |
| | | 4 | 21 | 13 | | | | | | | | | |
| | | 4 | 21 | 14 | | | | | | | | | |
| | | 4 | 21 | 15 | | | | | | | | | |
| | | 4 | 21 | 16 | | | | | | | | | |
| | | 4 | 21 | 17 | | | | | | | | | |
| | | 4 | 21 | 18 | | | | | | | | | |
| | | 4 | 21 | 19 | | | | | | | | | |
| | | 4 | 21 | 20 | | | | | | | | | |
| | | 4 | 21 | 21 | | | | | | | | | |
| | | 4 | 21 | 22 | | | | | | | | | |
| | | 4 | 21 | 23 | | | | | | | | | |
| | | 4 | 21 | 24 | | | | | | | | | |
| | | 4 | 22 | 1 | | | | | | | | | |
| | | 4 | 22 | 2 | | | | | | | | | |
| | | 4 | 22 | 3 | | | | | | | | | |
| | | 4 | 22 | 4 | | | | | | | | | |
| | | 4 | 22 | 5 | | | | | | | | | |
| | | 4 | 22 | 6 | | | | | | | | | |
| | | 4 | 22 | 7 | | | | | | | | | |
| | | 4 | 22 | 8 | | | | | | | | | |
| | | 4 | 22 | 9 | | | | | | | | | |
| | | 4 | 22 | 10 | | | | | | | | | |
| | | 4 | 22 | 11 | | | | | | | | | |
| | | 4 | 22 | 12 | | | | | | | | | |
| | | 4 | 22 | 13 | | | | | | | | | |
| | | 4 | 22 | 14 | | | | | | | | | |
| | | 4 | 22 | 15 | | | | | | | | | |
| | | 4 | 22 | 16 | | | | | | | | | |
| | | 4 | 22 | 17 | | | | | | | | | |
| | | 4 | 22 | 18 | | | | | | | | | |
| | | 4 | 22 | 19 | | | | | | | | | |
| | | 4 | 22 | 20 | | | | | | | | | |
| | | 4 | 22 | 21 | | | | | | | | | |
| | | 4 | 22 | 22 | | | | | | | | | |
| | | 4 | 22 | 23 | | | | | | | | | |
| | | 4 | 22 | 24 | | | | | | | | | |
| | | 4 | 23 | 1 | | | | | | | | | |
| | | 4 | 23 | 2 | | | | | | | | | |
| | | 4 | 23 | 3 | | | | | | | | | |
| | | 4 | 23 | 4 | | | | | | | | | |
| | | 4 | 23 | 5 | | | | | | | | | |
| | | 4 | 23 | 6 | | | | | | | | | |
| | | 4 | 23 | 7 | | | | | | | | | |
| | | 4 | 23 | 8 | | | | | | | | | |
| | | 4 | 23 | 9 | | | | | | | | | |
| | | 4 | 23 | 10 | | | | | | | | | |
| | | 4 | 23 | 11 | | | | | | | | | |
| | | 4 | 23 | 12 | | | | | | | | | |
| | | 4 | 23 | 13 | | | | | | | | | |
| | | 4 | 23 | 14 | | | | | | | | | |
| | | 4 | 23 | 15 | | | | | | | | | |
| | | 4 | 23 | 16 | | | | | | | | | |
| | | 4 | 23 | 17 | | | | | | | | | |
| | | 4 | 23 | 18 | | | | | | | | | |
| | | 4 | 23 | 19 | | | | | | | | | |
| | | 4 | 23 | 20 | | | | | | | | | |
| | | 4 | 23 | 21 | | | | | | | | | |
| | | 4 | 23 | 22 | | | | | | | | | |
| | | 4 | 23 | 23 | | | | | | | | | |
| | | 4 | 23 | 24 | | | | | | | | | |
| | | 4 | 24 | 1 | | | | | | | | | |
| | | 4 | 24 | 2 | | | | | | | | | |
| | | 4 | 24 | 3 | | | | | | | | | |
| | | 4 | 24 | 4 | | | | | | | | | |
| | | 4 | 24 | 5 | | | | | | | | | |
| | | 4 | 24 | 6 | | | | | | | | | |
| | | 4 | 24 | 7 | | | | | | | | | |
| | | 4 | 24 | 8 | | | | | | | | | |
| | | 4 | 24 | 9 | | | | | | | | | |
| | | 4 | 24 | 10 | | | | | | | | | |
| | | 4 | 24 | 11 | | | | | | | | | |
| | | 4 | 24 | 12 | | | | | | | | | |
| | | 4 | 24 | 13 | | | | | | | | | |
| | | 4 | 24 | 14 | | | | | | | | | |
| | | 4 | 24 | 15 | | | | | | | | | |
| | | 4 | 24 | 16 | | | | | | | | | |
| | | 4 | 24 | 17 | | | | | | | | | |
| | | 4 | 24 | 18 | | | | | | | | | |
| | | 4 | 24 | 19 | | | | | | | | | |
| | | 4 | 24 | 20 | | | | | | | | | |
| | | 4 | 24 | 21 | | | | | | | | | |
| | | 4 | 24 | 22 | | | | | | | | | |
| | | 4 | 24 | 23 | | | | | | | | | |
| | | 4 | 24 | 24 | | | | | | | | | |
| | | 4 | 25 | 1 | | | | | | | | | |
| | | 4 | 25 | 2 | | | | | | | | | |
| | | 4 | 25 | 3 | | | | | | | | | |
| | | 4 | 25 | 4 | | | | | | | | | |
| | | 4 | 25 | 5 | | | | | | | | | |
| | | 4 | 25 | 6 | | | | | | | | | |
| | | 4 | 25 | 7 | | | | | | | | | |
| | | 4 | 25 | 8 | | | | | | | | | |
| | | 4 | 25 | 9 | | | | | | | | | |
| | | 4 | 25 | 10 | | | | | | | | | |
| | | 4 | 25 | 11 | | | | | | | | | |
| | | 4 | 25 | 12 | | | | | | | | | |
| | | 4 | 25 | 13 | | | | | | | | | |
| | | 4 | 25 | 14 | | | | | | | | | |
| | | 4 | 25 | 15 | | | | | | | | | |
| | | 4 | 25 | 16 | | | | | | | | | |
| | | 4 | 25 | 17 | | | | | | | | | |
| | | 4 | 25 | 18 | | | | | | | | | |
| | | 4 | 25 | 19 | | | | | | | | | |
| | | 4 | 25 | 20 | | | | | | | | | |
| | | 4 | 25 | 21 | | | | | | | | | |
| | | 4 | 25 | 22 | | | | | | | | | |
| | | 4 | 25 | 23 | | | | | | | | | |
| | | 4 | 25 | 24 | | | | | | | | | |
| | | 4 | 26 | 1 | | | | | | | | | |
| | | 4 | 26 | 2 | | | | | | | | | |
| | | 4 | 26 | 3 | | | | | | | | | |
| | | 4 | 26 | 4 | | | | | | | | | |
| | | 4 | 26 | 5 | | | | | | | | | |
| | | 4 | 26 | 6 | | | | | | | | | |
| | | 4 | 26 | 7 | | | | | | | | | |
| | | 4 | 26 | 8 | | | | | | | | | |
| | | 4 | 26 | 9 | | | | | | | | | |
| | | 4 | 26 | 10 | | | | | | | | | |
| | | 4 | 26 | 11 | | | | | | | | | |
| | | 4 | 26 | 12 | | | | | | | | | |
| | | 4 | 26 | 13 | | | | | | | | | |
| | | 4 | 26 | 14 | | | | | | | | | |
| | | 4 | 26 | 15 | | | | | | | | | |
| | | 4 | 26 | 16 | | | | | | | | | |
| | | 4 | 26 | 17 | | | | | | | | | |
| | | 4 | 26 | 18 | | | | | | | | | |
| | | 4 | 26 | 19 | | | | | | | | | |
| | | 4 | 26 | 20 | | | | | | | | | |
| | | 4 | 26 | 21 | | | | | | | | | |
| | | 4 | 26 | 22 | | | | | | | | | |
| | | 4 | 26 | 23 | | | | | | | | | |
| | | 4 | 26 | 24 | | | | | | | | | |
| | | 4 | 27 | 1 | | | | | | | | | |
| | | 4 | 27 | 2 | | | | | | | | | |

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| | | 4 | 27 | 6 | | | | | | | | | |
| | | 4 | 27 | 7 | | | | | | | | | |
| | | 4 | 27 | 8 | | | | | | | | | |
| | | 4 | 27 | 9 | | | | | | | | | |
| | | 4 | 27 | 10 | | | | | | | | | |
| | | 4 | 27 | 11 | | | | | | | | | |
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| | | 4 | 27 | 16 | | | | | | | | | |
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| | | 4 | 27 | 18 | | | | | | | | | |
| | | 4 | 27 | 19 | | | | | | | | | |
| | | 4 | 27 | 20 | | | | | | | | | |
| | | 4 | 27 | 21 | | | | | | | | | |
| | | 4 | 27 | 22 | | | | | | | | | |
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| | | 4 | 28 | 1 | | | | | | | | | |
| | | 4 | 28 | 2 | | | | | | | | | |
| | | 4 | 28 | 3 | | | | | | | | | |
| | | 4 | 28 | 4 | | | | | | | | | |
| | | 4 | 28 | 5 | | | | | | | | | |
| | | 4 | 28 | 6 | | | | | | | | | |
| | | 4 | 28 | 7 | | | | | | | | | |
| | | 4 | 28 | 8 | | | | | | | | | |
| | | 4 | 28 | 9 | | | | | | | | | |
| | | 4 | 28 | 10 | | | | | | | | | |
| | | 4 | 28 | 11 | | | | | | | | | |
| | | 4 | 28 | 12 | | | | | | | | | |
| | | 4 | 28 | 13 | | | | | | | | | |
| | | 4 | 28 | 14 | | | | | | | | | |
| | | 4 | 28 | 15 | | | | | | | | | |
| | | 4 | 28 | 16 | | | | | | | | | |
| | | 4 | 28 | 17 | | | | | | | | | |
| | | 4 | 28 | 18 | | | | | | | | | |
| | | 4 | 28 | 19 | | | | | | | | | |
| | | 4 | 28 | 20 | | | | | | | | | |
| | | 4 | 28 | 21 | | | | | | | | | |
| | | 4 | 28 | 22 | | | | | | | | | |
| | | 4 | 28 | 23 | | | | | | | | | |
| | | 4 | 28 | 24 | | | | | | | | | |
| | | 4 | 29 | 1 | | | | | | | | | |
| | | 4 | 29 | 2 | | | | | | | | | |
| | | 4 | 29 | 3 | | | | | | | | | |
| | | 4 | 29 | 4 | | | | | | | | | |
| | | 4 | 29 | 5 | | | | | | | | | |
| | | 4 | 29 | 6 | | | | | | | | | |
| | | 4 | 29 | 7 | | | | | | | | | |
| | | 4 | 29 | 8 | | | | | | | | | |
| | | 4 | 29 | 9 | | | | | | | | | |
| | | 4 | 29 | 10 | | | | | | | | | |
| | | 4 | 29 | 11 | | | | | | | | | |
| | | 4 | 29 | 12 | | | | | | | | | |
| | | 4 | 29 | 13 | | | | | | | | | |
| | | 4 | 29 | 14 | | | | | | | | | |
| | | 4 | 29 | 15 | | | | | | | | | |
| | | 4 | 29 | 16 | | | | | | | | | |
| | | 4 | 29 | 17 | | | | | | | | | |
| | | 4 | 29 | 18 | | | | | | | | | |
| | | 4 | 29 | 19 | | | | | | | | | |
| | | 4 | 29 | 20 | | | | | | | | | |
| | | 4 | 29 | 21 | | | | | | | | | |
| | | 4 | 29 | 22 | | | | | | | | | |
| | | 4 | 29 | 23 | | | | | | | | | |
| | | 4 | 29 | 24 | | | | | | | | | |
| | | 4 | 30 | 1 | | | | | | | | | |
| | | 4 | 30 | 2 | | | | | | | | | |
| | | 4 | 30 | 3 | | | | | | | | | |
| | | 4 | 30 | 4 | | | | | | | | | |
| | | 4 | 30 | 5 | | | | | | | | | |
| | | 4 | 30 | 6 | | | | | | | | | |
| | | 4 | 30 | 7 | | | | | | | | | |
| | | 4 | 30 | 8 | | | | | | | | | |
| | | 4 | 30 | 9 | | | | | | | | | |
| | | 4 | 30 | 10 | | | | | | | | | |
| | | 4 | 30 | 11 | | | | | | | | | |
| | | 4 | 30 | 12 | | | | | | | | | |
| | | 4 | 30 | 13 | | | | | | | | | |
| | | 4 | 30 | 14 | | | | | | | | | |
| | | 4 | 30 | 15 | | | | | | | | | |
| | | 4 | 30 | 16 | | | | | | | | | |
| | | 4 | 30 | 17 | | | | | | | | | |
| | | 4 | 30 | 18 | | | | | | | | | |
| | | 4 | 30 | 19 | | | | | | | | | |
| | | 4 | 30 | 20 | | | | | | | | | |
| | | 4 | 30 | 21 | | | | | | | | | |
| | | 4 | 30 | 22 | | | | | | | | | |
| | | 4 | 30 | 23 | | | | | | | | | |
| | | 4 | 30 | 24 | | | | | | | | | |
| | | 5 | 1 | 1 | | | | | | | | | |
| | | 5 | 1 | 2 | | | | | | | | | |
| | | 5 | 1 | 3 | | | | | | | | | |
| | | 5 | 1 | 4 | | | | | | | | | |
| | | 5 | 1 | 5 | | | | | | | | | |
| | | 5 | 1 | 6 | | | | | | | | | |
| | | 5 | 1 | 7 | | | | | | | | | |
| | | 5 | 1 | 8 | | | | | | | | | |
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| | | 5 | 1 | 10 | | | | | | | | | |
| | | 5 | 1 | 11 | | | | | | | | | |
| | | 5 | 1 | 12 | | | | | | | | | |
| | | 5 | 1 | 13 | | | | | | | | | |
| | | 5 | 1 | 14 | | | | | | | | | |
| | | 5 | 1 | 15 | | | | | | | | | |
| | | 5 | 1 | 16 | | | | | | | | | |
| | | 5 | 1 | 17 | | | | | | | | | |
| | | 5 | 1 | 18 | | | | | | | | | |
| | | 5 | 1 | 19 | | | | | | | | | |
| | | 5 | 1 | 20 | | | | | | | | | |
| | | 5 | 1 | 21 | | | | | | | | | |
| | | 5 | 1 | 22 | | | | | | | | | |
| | | 5 | 1 | 23 | | | | | | | | | |
| | | 5 | 1 | 24 | | | | | | | | | |
| | | 5 | 2 | 1 | | | | | | | | | |
| | | 5 | 2 | 2 | | | | | | | | | |
| | | 5 | 2 | 3 | | | | | | | | | |
| | | 5 | 2 | 4 | | | | | | | | | |
| | | 5 | 2 | 5 | | | | | | | | | |
| | | 5 | 2 | 6 | | | | | | | | | |
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| | | 5 | 2 | 10 | | | | | | | | | |
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| | | 5 | 2 | 12 | | | | | | | | | |
| | | 5 | 2 | 13 | | | | | | | | | |
| | | 5 | 2 | 14 | | | | | | | | | |
| | | 5 | 2 | 15 | | | | | | | | | |
| | | 5 | 2 | 16 | | | | | | | | | |
| | | 5 | 2 | 17 | | | | | | | | | |
| | | 5 | 2 | 18 | | | | | | | | | |
| | | 5 | 2 | 19 | | | | | | | | | |
| | | 5 | 2 | 20 | | | | | | | | | |
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| | | 5 | 2 | 22 | | | | | | | | | |
| | | 5 | 2 | 23 | | | | | | | | | |
| | | 5 | 2 | 24 | | | | | | | | | |
| | | 5 | 3 | 1 | | | | | | | | | |
| | | 5 | 3 | 2 | | | | | | | | | |
| | | 5 | 3 | 3 | | | | | | | | | |
| | | 5 | 3 | 4 | | | | | | | | | |
| | | 5 | 3 | 5 | | | | | | | | | |
| | | 5 | 3 | 6 | | | | | | | | | |
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| | | 5 | 3 | 15 | | | | | | | | | |
| | | 5 | 3 | 16 | | | | | | | | | |
| | | 5 | 3 | 17 | | | | | | | | | |
| | | 5 | 3 | 18 | | | | | | | | | |
| | | 5 | 3 | 19 | | | | | | | | | |
| | | 5 | 3 | 20 | | | | | | | | | |
| | | 5 | 3 | 21 | | | | | | | | | |
| | | 5 | 3 | 22 | | | | | | | | | |
| | | 5 | 3 | 23 | | | | | | | | | |
| | | 5 | 3 | 24 | | | | | | | | | |
| | | 5 | 4 | 1 | | | | | | | | | |
| | | 5 | 4 | 2 | | | | | | | | | |
| | | 5 | 4 | 3 | | | | | | | | | |
| | | 5 | 4 | 4 | | | | | | | | | |
| | | 5 | 4 | 5 | | | | | | | | | |
| | | 5 | 4 | 6 | | | | | | | | | |
| | | 5 | 4 | 7 | | | | | | | | | |
| | | 5 | 4 | 8 | | | | | | | | | |
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| | | 5 | 4 | 18 | | | | | | | | | |
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| | | 5 | 4 | 21 | | | | | | | | | |
| | | 5 | 4 | 22 | | | | | | | | | |
| | | 5 | 4 | 23 | | | | | | | | | |
| | | 5 | 4 | 24 | | | | | | | | | |
| | | 5 | 5 | 1 | | | | | | | | | |
| | | 5 | 5 | 2 | | | | | | | | | |
| | | 5 | 5 | 3 | | | | | | | | | |
| | | 5 | 5 | 4 | | | | | | | | | |
| | | 5 | 5 | 5 | | | | | | | | | |
| | | 5 | 5 | 6 | | | | | | | | | |
| | | 5 | 5 | 7 | | | | | | | | | |
| | | 5 | 5 | 8 | | | | | | | | | |
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| | | 5 | 5 | 18 | | | | | | | | | |
| | | 5 | 5 | 19 | | | | | | | | | |
| | | 5 | 5 | 20 | | | | | | | | | |
| | | 5 | 5 | 21 | | | | | | | | | |
| | | 5 | 5 | 22 | | | | | | | | | |
| | | 5 | 5 | 23 | | | | | | | | | |
| | | 5 | 5 | 24 | | | | | | | | | |
| | | 5 | 6 | 1 | | | | | | | | | |
| | | 5 | 6 | 2 | | | | | | | | | |
| | | 5 | 6 | 3 | | | | | | | | | |
| | | 5 | 6 | 4 | | | | | | | | | |
| | | 5 | 6 | 5 | | | | | | | | | |
| | | 5 | 6 | 6 | | | | | | | | | |
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| | | 5 | 6 | 10 | | | | | | | | | |
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| | | 5 | 6 | 12 | | | | | | | | | |
| | | 5 | 6 | 13 | | | | | | | | | |
| | | 5 | 6 | 14 | | | | | | | | | |
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| | | 5 | 6 | 16 | | | | | | | | | |
| | | 5 | 6 | 17 | | | | | | | | | |
| | | 5 | 6 | 18 | | | | | | | | | |
| | | 5 | 6 | 19 | | | | | | | | | |
| | | 5 | 6 | 20 | | | | | | | | | |
| | | 5 | 6 | 21 | | | | | | | | | |
| | | 5 | 6 | 22 | | | | | | | | | |
| | | 5 | 6 | 23 | | | | | | | | | |
| | | 5 | 6 | 24 | | | | | | | | | |
| | | 5 | 7 | 1 | | | | | | | | | |
| | | 5 | 7 | 2 | | | | | | | | | |
| | | 5 | 7 | 3 | | | | | | | | | |
| | | 5 | 7 | 4 | | | | | | | | | |
| | | 5 | 7 | 5 | | | | | | | | | |
| | | 5 | 7 | 6 | | | | | | | | | |
| | | 5 | 7 | 7 | | | | | | | | | |
| | | 5 | 7 | 8 | | | | | | | | | |
| | | 5 | 7 | 9 | | | | | | | | | |
| | | 5 | 7 | 10 | | | | | | | | | |
| | | 5 | 7 | 11 | | | | | | | | | |
| | | 5 | 7 | 12 | | | | | | | | | |
| | | 5 | 7 | 13 | | | | | | | | | |
| | | 5 | 7 | 14 | | | | | | | | | |
| | | 5 | 7 | 15 | | | | | | | | | |
| | | 5 | 7 | 16 | | | | | | | | | |
| | | 5 | 7 | 17 | | | | | | | | | |
| | | 5 | 7 | 18 | | | | | | | | | |
| | | 5 | 7 | 19 | | | | | | | | | |
| | | 5 | 7 | 20 | | | | | | | | | |
| | | 5 | 7 | 21 | | | | | | | | | |
| | | 5 | 7 | 22 | | | | | | | | | |
| | | 5 | 7 | 23 | | | | | | | | | |
| | | 5 | 7 | 24 | | | | | | | | | |
| | | 5 | 8 | 1 | | | | | | | | | |
| | | 5 | 8 | 2 | | | | | | | | | |
| | | 5 | 8 | 3 | | | | | | | | | |
| | | 5 | 8 | 4 | | | | | | | | | |
| | | 5 | 8 | 5 | | | | | | | | | |
| | | 5 | 8 | 6 | | | | | | | | | |
| | | 5 | 8 | 7 | | | | | | | | | |
| | | 5 | 8 | 8 | | | | | | | | | |
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| | | 5 | 8 | 10 | | | | | | | | | |
| | | 5 | 8 | 11 | | | | | | | | | |
| | | 5 | 8 | 12 | | | | | | | | | |
| | | 5 | 8 | 13 | | | | | | | | | |
| | | 5 | 8 | 14 | | | | | | | | | |
| | | 5 | 8 | 15 | | | | | | | | | |
| | | 5 | 8 | 16 | | | | | | | | | |
| | | 5 | 8 | 17 | | | | | | | | | |
| | | 5 | 8 | 18 | | | | | | | | | |
| | | 5 | 8 | 19 | | | | | | | | | |
| | | 5 | 8 | 20 | | | | | | | | | |
| | | 5 | 8 | 21 | | | | | | | | | |
| | | 5 | 8 | 22 | | | | | | | | | |
| | | 5 | 8 | 23 | | | | | | | | | |
| | | 5 | 8 | 24 | | | | | | | | | |
| | | 5 | 9 | 1 | | | | | | | | | |
| | | 5 | 9 | 2 | | | | | | | | | |
| | | 5 | 9 | 3 | | | | | | | | | |
| | | 5 | 9 | 4 | | | | | | | | | |
| | | 5 | 9 | 5 | | | | | | | | | |
| | | 5 | 9 | 6 | | | | | | | | | |
| | | 5 | 9 | 7 | | | | | | | | | |
| | | 5 | 9 | 8 | | | | | | | | | |
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| | | 5 | 9 | 10 | | | | | | | | | |
| | | 5 | 9 | 11 | | | | | | | | | |
| | | 5 | 9 | 12 | | | | | | | | | |
| | | 5 | 9 | 13 | | | | | | | | | |
| | | 5 | 9 | 14 | | | | | | | | | |
| | | 5 | 9 | 15 | | | | | | | | | |
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| | | 5 | 9 | 17 | | | | | | | | | |
| | | 5 | 9 | 18 | | | | | | | | | |
| | | 5 | 9 | 19 | | | | | | | | | |
| | | 5 | 9 | 20 | | | | | | | | | |
| | | 5 | 9 | 21 | | | | | | | | | |
| | | 5 | 9 | 22 | | | | | | | | | |
| | | 5 | 9 | 23 | | | | | | | | | |
| | | 5 | 9 | 24 | | | | | | | | | |
| | | 5 | 10 | 1 | | | | | | | | | |
| | | 5 | 10 | 2 | | | | | | | | | |
| | | 5 | 10 | 3 | | | | | | | | | |
| | | 5 | 10 | 4 | | | | | | | | | |
| | | 5 | 10 | 5 | | | | | | | | | |
| | | 5 | 10 | 6 | | | | | | | | | |
| | | 5 | 10 | 7 | | | | | | | | | |
| | | 5 | 10 | 8 | | | | | | | | | |
| | | 5 | 10 | 9 | | | | | | | | | |
| | | 5 | 10 | 10 | | | | | | | | | |
| | | 5 | 10 | 11 | | | | | | | | | |
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| | | 5 | 10 | 13 | | | | | | | | | |
| | | 5 | 10 | 14 | | | | | | | | | |
| | | 5 | 10 | 15 | | | | | | | | | |
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| | | 5 | 10 | 17 | | | | | | | | | |
| | | 5 | 10 | 18 | | | | | | | | | |
| | | 5 | 10 | 19 | | | | | | | | | |
| | | 5 | 10 | 20 | | | | | | | | | |
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| | | 5 | 10 | 22 | | | | | | | | | |
| | | 5 | 10 | 23 | | | | | | | | | |
| | | 5 | 10 | 24 | | | | | | | | | |
| | | 5 | 11 | 1 | | | | | | | | | |
| | | 5 | 11 | 2 | | | | | | | | | |
| | | 5 | 11 | 3 | | | | | | | | | |
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| | | 5 | 11 | 6 | | | | | | | | | |
| | | 5 | 11 | 7 | | | | | | | | | |
| | | 5 | 11 | 8 | | | | | | | | | |
| | | 5 | 11 | 9 | | | | | | | | | |
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| | | 5 | 11 | 11 | | | | | | | | | |
| | | 5 | 11 | 12 | | | | | | | | | |
| | | 5 | 11 | 13 | | | | | | | | | |
| | | 5 | 11 | 14 | | | | | | | | | |
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| | | 5 | 11 | 18 | | | | | | | | | |
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| | | 5 | 11 | 21 | | | | | | | | | |
| | | 5 | 11 | 22 | | | | | | | | | |
| | | 5 | 11 | 23 | | | | | | | | | |
| | | 5 | 11 | 24 | | | | | | | | | |
| | | 5 | 12 | 1 | | | | | | | | | |
| | | 5 | 12 | 2 | | | | | | | | | |
| | | 5 | 12 | 3 | | | | | | | | | |
| | | 5 | 12 | 4 | | | | | | | | | |
| | | 5 | 12 | 5 | | | | | | | | | |
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| | | 5 | 12 | 11 | | | | | | | | | |
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| | | 5 | 12 | 14 | | | | | | | | | |
| | | 5 | 12 | 15 | | | | | | | | | |
| | | 5 | 12 | 16 | | | | | | | | | |
| | | 5 | 12 | 17 | | | | | | | | | |
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| | | 5 | 12 | 20 | | | | | | | | | |
| | | 5 | 12 | 21 | | | | | | | | | |
| | | 5 | 12 | 22 | | | | | | | | | |
| | | 5 | 12 | 23 | | | | | | | | | |
| | | 5 | 12 | 24 | | | | | | | | | |
| | | 5 | 13 | 1 | | | | | | | | | |
| | | 5 | 13 | 2 | | | | | | | | | |
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| | | 5 | 13 | 6 | | | | | | | | | |
| | | 5 | 13 | 7 | | | | | | | | | |
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| | | 5 | 13 | 11 | | | | | | | | | |
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| | | 5 | 13 | 15 | | | | | | | | | |
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| | | 5 | 13 | 21 | | | | | | | | | |
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| | | 5 | 14 | 4 | | | | | | | | | |
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| | | 5 | 14 | 6 | | | | | | | | | |
| | | 5 | 14 | 7 | | | | | | | | | |
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| | | 5 | 14 | 17 | | | | | | | | | |
| | | 5 | 14 | 18 | | | | | | | | | |
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| | | 5 | 14 | 20 | | | | | | | | | |
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| | | 5 | 14 | 23 | | | | | | | | | |
| | | 5 | 14 | 24 | | | | | | | | | |
| | | 5 | 15 | 1 | | | | | | | | | |
| | | 5 | 15 | 2 | | | | | | | | | |
| | | 5 | 15 | 3 | | | | | | | | | |
| | | 5 | 15 | 4 | | | | | | | | | |
| | | 5 | 15 | 5 | | | | | | | | | |
| | | 5 | 15 | 6 | | | | | | | | | |
| | | 5 | 15 | 7 | | | | | | | | | |
| | | 5 | 15 | 8 | | | | | | | | | |
| | | 5 | 15 | 9 | | | | | | | | | |
| | | 5 | 15 | 10 | | | | | | | | | |
| | | 5 | 15 | 11 | | | | | | | | | |
| | | 5 | 15 | 12 | | | | | | | | | |
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| | | 5 | 15 | 14 | | | | | | | | | |
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| | | 5 | 15 | 16 | | | | | | | | | |
| | | 5 | 15 | 17 | | | | | | | | | |
| | | 5 | 15 | 18 | | | | | | | | | |
| | | 5 | 15 | 19 | | | | | | | | | |
| | | 5 | 15 | 20 | | | | | | | | | |
| | | 5 | 15 | 21 | | | | | | | | | |
| | | 5 | 15 | 22 | | | | | | | | | |
| | | 5 | 15 | 23 | | | | | | | | | |
| | | 5 | 15 | 24 | | | | | | | | | |
| | | 5 | 16 | 1 | | | | | | | | | |
| | | 5 | 16 | 2 | | | | | | | | | |
| | | 5 | 16 | 3 | | | | | | | | | |
| | | 5 | 16 | 4 | | | | | | | | | |
| | | 5 | 16 | 5 | | | | | | | | | |
| | | 5 | 16 | 6 | | | | | | | | | |
| | | 5 | 16 | 7 | | | | | | | | | |
| | | 5 | 16 | 8 | | | | | | | | | |
| | | 5 | 16 | 9 | | | | | | | | | |
| | | 5 | 16 | 10 | | | | | | | | | |
| | | 5 | 16 | 11 | | | | | | | | | |
| | | 5 | 16 | 12 | | | | | | | | | |
| | | 5 | 16 | 13 | | | | | | | | | |
| | | 5 | 16 | 14 | | | | | | | | | |
| | | 5 | 16 | 15 | | | | | | | | | |
| | | 5 | 16 | 16 | | | | | | | | | |
| | | 5 | 16 | 17 | | | | | | | | | |
| | | 5 | 16 | 18 | | | | | | | | | |
| | | 5 | 16 | 19 | | | | | | | | | |
| | | 5 | 16 | 20 | | | | | | | | | |
| | | 5 | 16 | 21 | | | | | | | | | |
| | | 5 | 16 | 22 | | | | | | | | | |
| | | 5 | 16 | 23 | | | | | | | | | |
| | | 5 | 16 | 24 | | | | | | | | | |
| | | 5 | 17 | 1 | | | | | | | | | |
| | | 5 | 17 | 2 | | | | | | | | | |
| | | 5 | 17 | 3 | | | | | | | | | |
| | | 5 | 17 | 4 | | | | | | | | | |
| | | 5 | 17 | 5 | | | | | | | | | |
| | | 5 | 17 | 6 | | | | | | | | | |
| | | 5 | 17 | 7 | | | | | | | | | |
| | | 5 | 17 | 8 | | | | | | | | | |
| | | 5 | 17 | 9 | | | | | | | | | |
| | | 5 | 17 | 10 | | | | | | | | | |
| | | 5 | 17 | 11 | | | | | | | | | |
| | | 5 | 17 | 12 | | | | | | | | | |
| | | 5 | 17 | 13 | | | | | | | | | |
| | | 5 | 17 | 14 | | | | | | | | | |
| | | 5 | 17 | 15 | | | | | | | | | |
| | | 5 | 17 | 16 | | | | | | | | | |
| | | 5 | 17 | 17 | | | | | | | | | |
| | | 5 | 17 | 18 | | | | | | | | | |
| | | 5 | 17 | 19 | | | | | | | | | |
| | | 5 | 17 | 20 | | | | | | | | | |
| | | 5 | 17 | 21 | | | | | | | | | |
| | | 5 | 17 | 22 | | | | | | | | | |
| | | 5 | 17 | 23 | | | | | | | | | |
| | | 5 | 17 | 24 | | | | | | | | | |
| | | 5 | 18 | 1 | | | | | | | | | |
| | | 5 | 18 | 2 | | | | | | | | | |
| | | 5 | 18 | 3 | | | | | | | | | |
| | | 5 | 18 | 4 | | | | | | | | | |
| | | 5 | 18 | 5 | | | | | | | | | |
| | | 5 | 18 | 6 | | | | | | | | | |
| | | 5 | 18 | 7 | | | | | | | | | |
| | | 5 | 18 | 8 | | | | | | | | | |
| | | 5 | 18 | 9 | | | | | | | | | |
| | | 5 | 18 | 10 | | | | | | | | | |
| | | 5 | 18 | 11 | | | | | | | | | |
| | | 5 | 18 | 12 | | | | | | | | | |
| | | 5 | 18 | 13 | | | | | | | | | |
| | | 5 | 18 | 14 | | | | | | | | | |
| | | 5 | 18 | 15 | | | | | | | | | |
| | | 5 | 18 | 16 | | | | | | | | | |
| | | 5 | 18 | 17 | | | | | | | | | |
| | | 5 | 18 | 18 | | | | | | | | | |
| | | 5 | 18 | 19 | | | | | | | | | |
| | | 5 | 18 | 20 | | | | | | | | | |
| | | 5 | 18 | 21 | | | | | | | | | |
| | | 5 | 18 | 22 | | | | | | | | | |
| | | 5 | 18 | 23 | | | | | | | | | |
| | | 5 | 18 | 24 | | | | | | | | | |
| | | 5 | 19 | 1 | | | | | | | | | |
| | | 5 | 19 | 2 | | | | | | | | | |
| | | 5 | 19 | 3 | | | | | | | | | |
| | | 5 | 19 | 4 | | | | | | | | | |
| | | 5 | 19 | 5 | | | | | | | | | |
| | | 5 | 19 | 6 | | | | | | | | | |
| | | 5 | 19 | 7 | | | | | | | | | |
| | | 5 | 19 | 8 | | | | | | | | | |
| | | 5 | 19 | 9 | | | | | | | | | |
| | | 5 | 19 | 10 | | | | | | | | | |
| | | 5 | 19 | 11 | | | | | | | | | |
| | | 5 | 19 | 12 | | | | | | | | | |
| | | 5 | 19 | 13 | | | | | | | | | |
| | | 5 | 19 | 14 | | | | | | | | | |
| | | 5 | 19 | 15 | | | | | | | | | |
| | | 5 | 19 | 16 | | | | | | | | | |
| | | 5 | 19 | 17 | | | | | | | | | |
| | | 5 | 19 | 18 | | | | | | | | | |
| | | 5 | 19 | 19 | | | | | | | | | |
| | | 5 | 19 | 20 | | | | | | | | | |
| | | 5 | 19 | 21 | | | | | | | | | |
| | | 5 | 19 | 22 | | | | | | | | | |
| | | 5 | 19 | 23 | | | | | | | | | |
| | | 5 | 19 | 24 | | | | | | | | | |
| | | 5 | 20 | 1 | | | | | | | | | |
| | | 5 | 20 | 2 | | | | | | | | | |
| | | 5 | 20 | 3 | | | | | | | | | |
| | | 5 | 20 | 4 | | | | | | | | | |
| | | 5 | 20 | 5 | | | | | | | | | |
| | | 5 | 20 | 6 | | | | | | | | | |
| | | 5 | 20 | 7 | | | | | | | | | |
| | | 5 | 20 | 8 | | | | | | | | | |
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| | | 5 | 20 | 10 | | | | | | | | | |
| | | 5 | 20 | 11 | | | | | | | | | |
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| | | 5 | 20 | 14 | | | | | | | | | |
| | | 5 | 20 | 15 | | | | | | | | | |
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| | | 5 | 20 | 17 | | | | | | | | | |
| | | 5 | 20 | 18 | | | | | | | | | |
| | | 5 | 20 | 19 | | | | | | | | | |
| | | 5 | 20 | 20 | | | | | | | | | |
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| | | 5 | 20 | 22 | | | | | | | | | |
| | | 5 | 20 | 23 | | | | | | | | | |
| | | 5 | 20 | 24 | | | | | | | | | |
| | | 5 | 21 | 1 | | | | | | | | | |
| | | 5 | 21 | 2 | | | | | | | | | |
| | | 5 | 21 | 3 | | | | | | | | | |
| | | 5 | 21 | 4 | | | | | | | | | |
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| | | 5 | 21 | 6 | | | | | | | | | |
| | | 5 | 21 | 7 | | | | | | | | | |
| | | 5 | 21 | 8 | | | | | | | | | |
| | | 5 | 21 | 9 | | | | | | | | | |
| | | 5 | 21 | 10 | | | | | | | | | |
| | | 5 | 21 | 11 | | | | | | | | | |
| | | 5 | 21 | 12 | | | | | | | | | |
| | | 5 | 21 | 13 | | | | | | | | | |
| | | 5 | 21 | 14 | | | | | | | | | |
| | | 5 | 21 | 15 | | | | | | | | | |
| | | 5 | 21 | 16 | | | | | | | | | |
| | | 5 | 21 | 17 | | | | | | | | | |
| | | 5 | 21 | 18 | | | | | | | | | |
| | | 5 | 21 | 19 | | | | | | | | | |
| | | 5 | 21 | 20 | | | | | | | | | |
| | | 5 | 21 | 21 | | | | | | | | | |
| | | 5 | 21 | 22 | | | | | | | | | |
| | | 5 | 21 | 23 | | | | | | | | | |
| | | 5 | 21 | 24 | | | | | | | | | |
| | | 5 | 22 | 1 | | | | | | | | | |
| | | 5 | 22 | 2 | | | | | | | | | |
| | | 5 | 22 | 3 | | | | | | | | | |
| | | 5 | 22 | 4 | | | | | | | | | |
| | | 5 | 22 | 5 | | | | | | | | | |
| | | 5 | 22 | 6 | | | | | | | | | |
| | | 5 | 22 | 7 | | | | | | | | | |
| | | 5 | 22 | 8 | | | | | | | | | |
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| | | 5 | 22 | 16 | | | | | | | | | | |
| | | 5 | 22 | 17 | | | | | | | | | | |
| | | 5 | 22 | 18 | | | | | | | | | | |
| | | 5 | 22 | 19 | | | | | | | | | | |
| | | 5 | 22 | 20 | | | | | | | | | | |
| | | 5 | 22 | 21 | | | | | | | | | | |
| | | 5 | 22 | 22 | | | | | | | | | | |
| | | 5 | 22 | 23 | | | | | | | | | | |
| | | 5 | 22 | 24 | | | | | | | | | | |
| | | 5 | 23 | 1 | | | | | | | | | | |
| | | 5 | 23 | 2 | | | | | | | | | | |
| | | 5 | 23 | 3 | | | | | | | | | | |
| | | 5 | 23 | 4 | | | | | | | | | | |
| | | 5 | 23 | 5 | | | | | | | | | | |
| | | 5 | 23 | 6 | | | | | | | | | | |
| | | 5 | 23 | 7 | | | | | | | | | | |
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| | | 5 | 23 | 10 | | | | | | | | | | |
| | | 5 | 23 | 11 | | | | | | | | | | |
| | | 5 | 23 | 12 | | | | | | | | | | |
| | | 5 | 23 | 13 | | | | | | | | | | |
| | | 5 | 23 | 14 | | | | | | | | | | |
| | | 5 | 23 | 15 | | | | | | | | | | |
| | | 5 | 23 | 16 | | | | | | | | | | |
| | | 5 | 23 | 17 | | | | | | | | | | |
| | | 5 | 23 | 18 | | | | | | | | | | |
| | | 5 | 23 | 19 | | | | | | | | | | |
| | | 5 | 23 | 20 | | | | | | | | | | |
| | | 5 | 23 | 21 | | | | | | | | | | |
| | | 5 | 23 | 22 | | | | | | | | | | |
| | | 5 | 23 | 23 | | | | | | | | | | |
| | | 5 | 23 | 24 | | | | | | | | | | |
| | | 5 | 24 | 1 | | | | | | | | | | |
| | | 5 | 24 | 2 | | | | | | | | | | |
| | | 5 | 24 | 3 | | | | | | | | | | |
| | | 5 | 24 | 4 | | | | | | | | | | |
| | | 5 | 24 | 5 | | | | | | | | | | |
| | | 5 | 24 | 6 | | | | | | | | | | |
| | | 5 | 24 | 7 | | | | | | | | | | |
| | | 5 | 24 | 8 | | | | | | | | | | |
| | | 5 | 24 | 9 | | | | | | | | | | |
| | | 5 | 24 | 10 | | | | | | | | | | |
| | | 5 | 24 | 11 | | | | | | | | | | |
| | | 5 | 24 | 12 | | | | | | | | | | |
| | | 5 | 24 | 13 | | | | | | | | | | |
| | | 5 | 24 | 14 | | | | | | | | | | |
| | | 5 | 24 | 15 | | | | | | | | | | |
| | | 5 | 24 | 16 | | | | | | | | | | |
| | | 5 | 24 | 17 | | | | | | | | | | |
| | | 5 | 24 | 18 | | | | | | | | | | |
| | | 5 | 24 | 19 | | | | | | | | | | |
| | | 5 | 24 | 20 | | | | | | | | | | |
| | | 5 | 24 | 21 | | | | | | | | | | |
| | | 5 | 24 | 22 | | | | | | | | | | |
| | | 5 | 24 | 23 | | | | | | | | | | |
| | | 5 | 24 | 24 | | | | | | | | | | |
| | | 5 | 25 | 1 | | | | | | | | | | |
| | | 5 | 25 | 2 | | | | | | | | | | |
| | | 5 | 25 | 3 | | | | | | | | | | |
| | | 5 | 25 | 4 | | | | | | | | | | |
| | | 5 | 25 | 5 | | | | | | | | | | |
| | | 5 | 25 | 6 | | | | | | | | | | |
| | | 5 | 25 | 7 | | | | | | | | | | |
| | | 5 | 25 | 8 | | | | | | | | | | |
| | | 5 | 25 | 9 | | | | | | | | | | |
| | | 5 | 25 | 10 | | | | | | | | | | |
| | | 5 | 25 | 11 | | | | | | | | | | |
| | | 5 | 25 | 12 | | | | | | | | | | |
| | | 5 | 25 | 13 | | | | | | | | | | |
| | | 5 | 25 | 14 | | | | | | | | | | |
| | | 5 | 25 | 15 | | | | | | | | | | |
| | | 5 | 25 | 16 | | | | | | | | | | |
| | | 5 | 25 | 17 | | | | | | | | | | |
| | | 5 | 25 | 18 | | | | | | | | | | |
| | | 5 | 25 | 19 | | | | | | | | | | |
| | | 5 | 25 | 20 | | | | | | | | | | |
| | | 5 | 25 | 21 | | | | | | | | | | |
| | | 5 | 25 | 22 | | | | | | | | | | |
| | | 5 | 25 | 23 | | | | | | | | | | |
| | | 5 | 25 | 24 | | | | | | | | | | |
| | | 5 | 26 | 1 | | | | | | | | | | |
| | | 5 | 26 | 2 | | | | | | | | | | |
| | | 5 | 26 | 3 | | | | | | | | | | |
| | | 5 | 26 | 4 | | | | | | | | | | |
| | | 5 | 26 | 5 | | | | | | | | | | |
| | | 5 | 26 | 6 | | | | | | | | | | |
| | | 5 | 26 | 7 | | | | | | | | | | |
| | | 5 | 26 | 8 | | | | | | | | | | |
| | | 5 | 26 | 9 | | | | | | | | | | |
| | | 5 | 26 | 10 | | | | | | | | | | |
| | | 5 | 26 | 11 | | | | | | | | | | |
| | | 5 | 26 | 12 | | | | | | | | | | |
| | | 5 | 26 | 13 | | | | | | | | | | |
| | | 5 | 26 | 14 | | | | | | | | | | |
| | | 5 | 26 | 15 | | | | | | | | | | |
| | | 5 | 26 | 16 | | | | | | | | | | |
| | | 5 | 26 | 17 | | | | | | | | | | |
| | | 5 | 26 | 18 | | | | | | | | | | |
| | | 5 | 26 | 19 | | | | | | | | | | |
| | | 5 | 26 | 20 | | | | | | | | | | |
| | | 5 | 26 | 21 | | | | | | | | | | |
| | | 5 | 26 | 22 | | | | | | | | | | |
| | | 5 | 26 | 23 | | | | | | | | | | |
| | | 5 | 26 | 24 | | | | | | | | | | |
| | | 5 | 27 | 1 | | | | | | | | | | |
| | | 5 | 27 | 2 | | | | | | | | | | |
| | | 5 | 27 | 3 | | | | | | | | | | |
| | | 5 | 27 | 4 | | | | | | | | | | |
| | | 5 | 27 | 5 | | | | | | | | | | |
| | | 5 | 27 | 6 | | | | | | | | | | |
| | | 5 | 27 | 7 | | | | | | | | | | |
| | | 5 | 27 | 8 | | | | | | | | | | |
| | | 5 | 27 | 9 | | | | | | | | | | |
| | | 5 | 27 | 10 | | | | | | | | | | |
| | | 5 | 27 | 11 | | | | | | | | | | |
| | | 5 | 27 | 12 | | | | | | | | | | |
| | | 5 | 27 | 13 | | | | | | | | | | |
| | | 5 | 27 | 14 | | | | | | | | | | |
| | | 5 | 27 | 15 | | | | | | | | | | |
| | | 5 | 27 | 16 | | | | | | | | | | |
| | | 5 | 27 | 17 | | | | | | | | | | |
| | | 5 | 27 | 18 | | | | | | | | | | |
| | | 5 | 27 | 19 | | | | | | | | | | |
| | | 5 | 27 | 20 | | | | | | | | | | |
| | | 5 | 27 | 21 | | | | | | | | | | |
| | | 5 | 27 | 22 | | | | | | | | | | |
| | | 5 | 27 | 23 | | | | | | | | | | |
| | | 5 | 27 | 24 | | | | | | | | | | |
| | | 5 | 28 | 1 | | | | | | | | | | |
| | | 5 | 28 | 2 | | | | | | | | | | |
| | | 5 | 28 | 3 | | | | | | | | | | |
| | | 5 | 28 | 4 | | | | | | | | | | |
| | | 5 | 28 | 5 | | | | | | | | | | |
| | | 5 | 28 | 6 | | | | | | | | | | |
| | | 5 | 28 | 7 | | | | | | | | | | |
| | | 5 | 28 | 8 | | | | | | | | | | |
| | | 5 | 28 | 9 | | | | | | | | | | |
| | | 5 | 28 | 10 | | | | | | | | | | |
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| | | 5 | 28 | 12 | | | | | | | | | | |
| | | 5 | 28 | 13 | | | | | | | | | | |
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| | | 5 | 28 | 15 | | | | | | | | | | |
| | | 5 | 28 | 16 | | | | | | | | | | |
| | | 5 | 28 | 17 | | | | | | | | | | |
| | | 5 | 28 | 18 | | | | | | | | | | |
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| | | 5 | 28 | 21 | | | | | | | | | | |
| | | 5 | 28 | 22 | | | | | | | | | | |
| | | 5 | 28 | 23 | | | | | | | | | | |
| | | 5 | 28 | 24 | | | | | | | | | | |
| | | 5 | 29 | 1 | | | | | | | | | | |
| | | 5 | 29 | 2 | | | | | | | | | | |
| | | 5 | 29 | 3 | | | | | | | | | | |
| | | 5 | 29 | 4 | | | | | | | | | | |
| | | 5 | 29 | 5 | | | | | | | | | | |
| | | 5 | 29 | 6 | | | | | | | | | | |
| | | 5 | 29 | 7 | | | | | | | | | | |
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| | | 5 | 29 | 9 | | | | | | | | | | |
| | | 5 | 29 | 10 | | | | | | | | | | |
| | | 5 | 29 | 11 | | | | | | | | | | |
| | | 5 | 29 | 12 | | | | | | | | | | |
| | | 5 | 29 | 13 | | | | | | | | | | |
| | | 5 | 29 | 14 | | | | | | | | | | |
| | | 5 | 29 | 15 | | | | | | | | | | |
| | | 5 | 29 | 16 | | | | | | | | | | |
| | | 5 | 29 | 17 | | | | | | | | | | |
| | | 5 | 29 | 18 | | | | | | | | | | |
| | | 5 | 29 | 19 | | | | | | | | | | |
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| | | 5 | 29 | 21 | | | | | | | | | | |
| | | 5 | 29 | 22 | | | | | | | | | | |
| | | 5 | 29 | 23 | | | | | | | | | | |
| | | 5 | 29 | 24 | | | | | | | | | | |
| | | 5 | 30 | 1 | | | | | | | | | | |
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| | | 5 | 30 | 3 | | | | | | | | | | |
| | | 5 | 30 | 4 | | | | | | | | | | |
| | | 5 | 30 | 5 | | | | | | | | | | |
| | | 5 | 30 | 6 | | | | | | | | | | |
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| | | 5 | 30 | 8 | | | | | | | | | | |
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| | | 5 | 30 | 11 | | | | | | | | | | |
| | | 5 | 30 | 12 | | | | | | | | | | |
| | | 5 | 30 | 13 | | | | | | | | | | |
| | | 5 | 30 | 14 | | | | | | | | | | |
| | | 5 | 30 | 15 | | | | | | | | | | |
| | | 5 | 30 | 16 | | | | | | | | | | |
| | | 5 | 30 | 17 | | | | | | | | | | |
| | | 5 | 30 | 18 | | | | | | | | | | |
| | | 5 | 30 | 19 | | | | | | | | | | |
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| | 5 | 31 | 2 | | | | | | | | | |
| | 5 | 31 | 3 | | | | | | | | | |
| | 5 | 31 | 4 | | | | | | | | | |
| | 5 | 31 | 5 | | | | | | | | | |
| | 5 | 31 | 6 | | | | | | | | | |
| | 5 | 31 | 7 | | | | | | | | | |
| | 5 | 31 | 8 | | | | | | | | | |
| | 5 | 31 | 9 | | | | | | | | | |
| | 5 | 31 | 10 | | | | | | | | | |
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| | 5 | 31 | 14 | | | | | | | | | |
| | 5 | 31 | 15 | | | | | | | | | |
| | 5 | 31 | 16 | | | | | | | | | |
| | 5 | 31 | 17 | | | | | | | | | |
| | 5 | 31 | 18 | | | | | | | | | |
| | 5 | 31 | 19 | | | | | | | | | |
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| | 5 | 31 | 22 | | | | | | | | | |
| | 5 | 31 | 23 | | | | | | | | | |
| | 5 | 31 | 24 | | | | | | | | | |
| | 6 | 1 | 1 | | | | | | | | | |
| | 6 | 1 | 2 | | | | | | | | | |
| | 6 | 1 | 3 | | | | | | | | | |
| | 6 | 1 | 4 | | | | | | | | | |
| | 6 | 1 | 5 | | | | | | | | | |
| | 6 | 1 | 6 | | | | | | | | | |
| | 6 | 1 | 7 | | | | | | | | | |
| | 6 | 1 | 8 | | | | | | | | | |
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| | 6 | 1 | 10 | | | | | | | | | |
| | 6 | 1 | 11 | | | | | | | | | |
| | 6 | 1 | 12 | | | | | | | | | |
| | 6 | 1 | 13 | | | | | | | | | |
| | 6 | 1 | 14 | | | | | | | | | |
| | 6 | 1 | 15 | | | | | | | | | |
| | 6 | 1 | 16 | | | | | | | | | |
| | 6 | 1 | 17 | | | | | | | | | |
| | 6 | 1 | 18 | | | | | | | | | |
| | 6 | 1 | 19 | | | | | | | | | |
| | 6 | 1 | 20 | | | | | | | | | |
| | 6 | 1 | 21 | | | | | | | | | |
| | 6 | 1 | 22 | | | | | | | | | |
| | 6 | 1 | 23 | | | | | | | | | |
| | 6 | 1 | 24 | | | | | | | | | |
| | 6 | 2 | 1 | | | | | | | | | |
| | 6 | 2 | 2 | | | | | | | | | |
| | 6 | 2 | 3 | | | | | | | | | |
| | 6 | 2 | 4 | | | | | | | | | |
| | 6 | 2 | 5 | | | | | | | | | |
| | 6 | 2 | 6 | | | | | | | | | |
| | 6 | 2 | 7 | | | | | | | | | |
| | 6 | 2 | 8 | | | | | | | | | |
| | 6 | 2 | 9 | | | | | | | | | |
| | 6 | 2 | 10 | | | | | | | | | |
| | 6 | 2 | 11 | | | | | | | | | |
| | 6 | 2 | 12 | | | | | | | | | |
| | 6 | 2 | 13 | | | | | | | | | |
| | 6 | 2 | 14 | | | | | | | | | |
| | 6 | 2 | 15 | | | | | | | | | |
| | 6 | 2 | 16 | | | | | | | | | |
| | 6 | 2 | 17 | | | | | | | | | |
| | 6 | 2 | 18 | | | | | | | | | |
| | 6 | 2 | 19 | | | | | | | | | |
| | 6 | 2 | 20 | | | | | | | | | |
| | 6 | 2 | 21 | | | | | | | | | |
| | 6 | 2 | 22 | | | | | | | | | |
| | 6 | 2 | 23 | | | | | | | | | |
| | 6 | 2 | 24 | | | | | | | | | |
| | 6 | 3 | 1 | | | | | | | | | |
| | 6 | 3 | 2 | | | | | | | | | |
| | 6 | 3 | 3 | | | | | | | | | |
| | 6 | 3 | 4 | | | | | | | | | |
| | 6 | 3 | 5 | | | | | | | | | |
| | 6 | 3 | 6 | | | | | | | | | |
| | 6 | 3 | 7 | | | | | | | | | |
| | 6 | 3 | 8 | | | | | | | | | |
| | 6 | 3 | 9 | | | | | | | | | |
| | 6 | 3 | 10 | | | | | | | | | |
| | 6 | 3 | 11 | | | | | | | | | |
| | 6 | 3 | 12 | | | | | | | | | |
| | 6 | 3 | 13 | | | | | | | | | |
| | 6 | 3 | 14 | | | | | | | | | |
| | 6 | 3 | 15 | | | | | | | | | |
| | 6 | 3 | 16 | | | | | | | | | |
| | 6 | 3 | 17 | | | | | | | | | |
| | 6 | 3 | 18 | | | | | | | | | |
| | 6 | 3 | 19 | | | | | | | | | |
| | 6 | 3 | 20 | | | | | | | | | |
| | 6 | 3 | 21 | | | | | | | | | |
| | 6 | 3 | 22 | | | | | | | | | |
| | 6 | 3 | 23 | | | | | | | | | |
| | 6 | 3 | 24 | | | | | | | | | |
| | 6 | 4 | 1 | | | | | | | | | |
| | 6 | 4 | 2 | | | | | | | | | |
| | 6 | 4 | 3 | | | | | | | | | |
| | 6 | 4 | 4 | | | | | | | | | |
| | 6 | 4 | 5 | | | | | | | | | |
| | 6 | 4 | 6 | | | | | | | | | |
| | 6 | 4 | 7 | | | | | | | | | |
| | 6 | 4 | 8 | | | | | | | | | |
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| | 6 | 4 | 11 | | | | | | | | | |
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| | 6 | 4 | 20 | | | | | | | | | |
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| | 6 | 4 | 23 | | | | | | | | | |
| | 6 | 4 | 24 | | | | | | | | | |
| | 6 | 5 | 1 | | | | | | | | | |
| | 6 | 5 | 2 | | | | | | | | | |
| | 6 | 5 | 3 | | | | | | | | | |
| | 6 | 5 | 4 | | | | | | | | | |
| | 6 | 5 | 5 | | | | | | | | | |
| | 6 | 5 | 6 | | | | | | | | | |
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| | 6 | 5 | 8 | | | | | | | | | |
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| | 6 | 5 | 21 | | | | | | | | | |
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| | 6 | 5 | 23 | | | | | | | | | |
| | 6 | 5 | 24 | | | | | | | | | |
| | 6 | 6 | 1 | | | | | | | | | |
| | 6 | 6 | 2 | | | | | | | | | |
| | 6 | 6 | 3 | | | | | | | | | |
| | 6 | 6 | 4 | | | | | | | | | |
| | 6 | 6 | 5 | | | | | | | | | |
| | 6 | 6 | 6 | | | | | | | | | |
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| | 6 | 6 | 16 | | | | | | | | | |
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| | 6 | 6 | 18 | | | | | | | | | |
| | 6 | 6 | 19 | | | | | | | | | |
| | 6 | 6 | 20 | | | | | | | | | |
| | 6 | 6 | 21 | | | | | | | | | |
| | 6 | 6 | 22 | | | | | | | | | |
| | 6 | 6 | 23 | | | | | | | | | |
| | 6 | 6 | 24 | | | | | | | | | |
| | 6 | 7 | 1 | | | | | | | | | |
| | 6 | 7 | 2 | | | | | | | | | |
| | 6 | 7 | 3 | | | | | | | | | |
| | 6 | 7 | 4 | | | | | | | | | |
| | 6 | 7 | 5 | | | | | | | | | |
| | 6 | 7 | 6 | | | | | | | | | |
| | 6 | 7 | 7 | | | | | | | | | |
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| | 6 | 7 | 14 | | | | | | | | | |
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| | 6 | 7 | 16 | | | | | | | | | |
| | 6 | 7 | 17 | | | | | | | | | |
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| | 6 | 7 | 19 | | | | | | | | | |
| | 6 | 7 | 20 | | | | | | | | | |
| | 6 | 7 | 21 | | | | | | | | | |
| | 6 | 7 | 22 | | | | | | | | | |
| | 6 | 7 | 23 | | | | | | | | | |
| | 6 | 7 | 24 | | | | | | | | | |
| | 6 | 8 | 1 | | | | | | | | | |
| | 6 | 8 | 2 | | | | | | | | | |
| | 6 | 8 | 3 | | | | | | | | | |
| | 6 | 8 | 4 | | | | | | | | | |
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| | 6 | 8 | 6 | | | | | | | | | |
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| | | 6 | 8 | 14 | | | | | | | | | |
| | | 6 | 8 | 15 | | | | | | | | | |
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| | | 6 | 8 | 19 | | | | | | | | | |
| | | 6 | 8 | 20 | | | | | | | | | |
| | | 6 | 8 | 21 | | | | | | | | | |
| | | 6 | 8 | 22 | | | | | | | | | |
| | | 6 | 8 | 23 | | | | | | | | | |
| | | 6 | 8 | 24 | | | | | | | | | |
| | | 6 | 9 | 1 | | | | | | | | | |
| | | 6 | 9 | 2 | | | | | | | | | |
| | | 6 | 9 | 3 | | | | | | | | | |
| | | 6 | 9 | 4 | | | | | | | | | |
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Demand Inputs

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| | | 6 | 17 | 2 | | | | | | | | | |
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| | | 6 | 17 | 7 | | | | | | | | | |
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| | | 6 | 18 | 1 | | | | | | | | | |
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| | | 6 | 18 | 4 | | | | | | | | | |
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| | | 6 | 19 | 1 | | | | | | | | | |
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| | | 6 | 22 | 2 | | | | | | | | | |
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| | | 6 | 26 | 1 | | | | | | | | | |
| | | 6 | 26 | 2 | | | | | | | | | |
| | | 6 | 26 | 3 | | | | | | | | | |
| | | 6 | 26 | 4 | | | | | | | | | |
| | | 6 | 26 | 5 | | | | | | | | | |
| | | 6 | 26 | 6 | | | | | | | | | |
| | | 6 | 26 | 7 | | | | | | | | | |
| | | 6 | 26 | 8 | | | | | | | | | |
| | | 6 | 26 | 9 | | | | | | | | | |
| | | 6 | 26 | 10 | | | | | | | | | |
| | | 6 | 26 | 11 | | | | | | | | | |
| | | 6 | 26 | 12 | | | | | | | | | |
| | | 6 | 26 | 13 | | | | | | | | | |
| | | 6 | 26 | 14 | | | | | | | | | |
| | | 6 | 26 | 15 | | | | | | | | | |
| | | 6 | 26 | 16 | | | | | | | | | |
| | | 6 | 26 | 17 | | | | | | | | | |
| | | 6 | 26 | 18 | | | | | | | | | |
| | | 6 | 26 | 19 | | | | | | | | | |
| | | 6 | 26 | 20 | | | | | | | | | |
| | | 6 | 26 | 21 | | | | | | | | | |
| | | 6 | 26 | 22 | | | | | | | | | |
| | | 6 | 26 | 23 | | | | | | | | | |
| | | 6 | 26 | 24 | | | | | | | | | |
| | | 6 | 27 | 1 | | | | | | | | | |
| | | 6 | 27 | 2 | | | | | | | | | |
| | | 6 | 27 | 3 | | | | | | | | | |
| | | 6 | 27 | 4 | | | | | | | | | |
| | | 6 | 27 | 5 | | | | | | | | | |
| | | 6 | 27 | 6 | | | | | | | | | |
| | | 6 | 27 | 7 | | | | | | | | | |
| | | 6 | 27 | 8 | | | | | | | | | |
| | | 6 | 27 | 9 | | | | | | | | | |
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| | | 6 | 27 | 16 | | | | | | | | | |
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| | | 6 | 27 | 20 | | | | | | | | | |
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| | | 6 | 27 | 22 | | | | | | | | | |
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| | | 6 | 27 | 24 | | | | | | | | | |
| | | 6 | 28 | 1 | | | | | | | | | |
| | | 6 | 28 | 2 | | | | | | | | | |
| | | 6 | 28 | 3 | | | | | | | | | |
| | | 6 | 28 | 4 | | | | | | | | | |
| | | 6 | 28 | 5 | | | | | | | | | |
| | | 6 | 28 | 6 | | | | | | | | | |
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| | | 7 | 12 | 22 | | | | | | | | | |
| | | 7 | 12 | 23 | | | | | | | | | |
| | | 7 | 12 | 24 | | | | | | | | | |
| | | 7 | 13 | 1 | | | | | | | | | |
| | | 7 | 13 | 2 | | | | | | | | | |
| | | 7 | 13 | 3 | | | | | | | | | |
| | | 7 | 13 | 4 | | | | | | | | | |
| | | 7 | 13 | 5 | | | | | | | | | |
| | | 7 | 13 | 6 | | | | | | | | | |
| | | 7 | 13 | 7 | | | | | | | | | |
| | | 7 | 13 | 8 | | | | | | | | | |
| | | 7 | 13 | 9 | | | | | | | | | |
| | | 7 | 13 | 10 | | | | | | | | | |
| | | 7 | 13 | 11 | | | | | | | | | |
| | | 7 | 13 | 12 | | | | | | | | | |
| | | 7 | 13 | 13 | | | | | | | | | |
| | | 7 | 13 | 14 | | | | | | | | | |
| | | 7 | 13 | 15 | | | | | | | | | |
| | | 7 | 13 | 16 | | | | | | | | | |
| | | 7 | 13 | 17 | | | | | | | | | |
| | | 7 | 13 | 18 | | | | | | | | | |
| | | 7 | 13 | 19 | | | | | | | | | |
| | | 7 | 13 | 20 | | | | | | | | | |
| | | 7 | 13 | 21 | | | | | | | | | |
| | | 7 | 13 | 22 | | | | | | | | | |
| | | 7 | 13 | 23 | | | | | | | | | |
| | | 7 | 13 | 24 | | | | | | | | | |
| | | 7 | 14 | 1 | | | | | | | | | |
| | | 7 | 14 | 2 | | | | | | | | | |
| | | 7 | 14 | 3 | | | | | | | | | |
| | | 7 | 14 | 4 | | | | | | | | | |
| | | 7 | 14 | 5 | | | | | | | | | |
| | | 7 | 14 | 6 | | | | | | | | | |
| | | 7 | 14 | 7 | | | | | | | | | |
| | | 7 | 14 | 8 | | | | | | | | | |
| | | 7 | 14 | 9 | | | | | | | | | |
| | | 7 | 14 | 10 | | | | | | | | | |
| | | 7 | 14 | 11 | | | | | | | | | |
| | | 7 | 14 | 12 | | | | | | | | | |
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| | | 7 | 14 | 14 | | | | | | | | | |
| | | 7 | 14 | 15 | | | | | | | | | |
| | | 7 | 14 | 16 | | | | | | | | | |
| | | 7 | 14 | 17 | | | | | | | | | |
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| | | 7 | 14 | 20 | | | | | | | | | |
| | | 7 | 14 | 21 | | | | | | | | | |
| | | 7 | 14 | 22 | | | | | | | | | |
| | | 7 | 14 | 23 | | | | | | | | | |
| | | 7 | 14 | 24 | | | | | | | | | |
| | | 7 | 15 | 1 | | | | | | | | | |
| | | 7 | 15 | 2 | | | | | | | | | |
| | | 7 | 15 | 3 | | | | | | | | | |
| | | 7 | 15 | 4 | | | | | | | | | |
| | | 7 | 15 | 5 | | | | | | | | | |
| | | 7 | 15 | 6 | | | | | | | | | |
| | | 7 | 15 | 7 | | | | | | | | | |
| | | 7 | 15 | 8 | | | | | | | | | |
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| | | 7 | 15 | 16 | | | | | | | | | |
| | | 7 | 15 | 17 | | | | | | | | | |
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| | | 7 | 15 | 20 | | | | | | | | | |
| | | 7 | 15 | 21 | | | | | | | | | |
| | | 7 | 15 | 22 | | | | | | | | | |
| | | 7 | 15 | 23 | | | | | | | | | |
| | | 7 | 15 | 24 | | | | | | | | | |
| | | 7 | 16 | 1 | | | | | | | | | |
| | | 7 | 16 | 2 | | | | | | | | | |
| | | 7 | 16 | 3 | | | | | | | | | |
| | | 7 | 16 | 4 | | | | | | | | | |
| | | 7 | 16 | 5 | | | | | | | | | |
| | | 7 | 16 | 6 | | | | | | | | | |
| | | 7 | 16 | 7 | | | | | | | | | |
| | | 7 | 16 | 8 | | | | | | | | | |
| | | 7 | 16 | 9 | | | | | | | | | |
| | | 7 | 16 | 10 | | | | | | | | | |
| | | 7 | 16 | 11 | | | | | | | | | |
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| | | 7 | 16 | 13 | | | | | | | | | |
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| | | 7 | 16 | 17 | | | | | | | | | |
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| | | 7 | 16 | 23 | | | | | | | | | |
| | | 7 | 16 | 24 | | | | | | | | | |
| | | 7 | 17 | 1 | | | | | | | | | |
| | | 7 | 17 | 2 | | | | | | | | | |
| | | 7 | 17 | 3 | | | | | | | | | |
| | | 7 | 17 | 4 | | | | | | | | | |
| | | 7 | 17 | 5 | | | | | | | | | |
| | | 7 | 17 | 6 | | | | | | | | | |
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| | | 7 | 17 | 11 | | | | | | | | | |
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| | | 7 | 17 | 22 | | | | | | | | | |
| | | 7 | 17 | 23 | | | | | | | | | |
| | | 7 | 17 | 24 | | | | | | | | | |
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| | | 7 | 18 | 2 | | | | | | | | | |
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| | | 7 | 20 | 4 | | | | | | | | | |
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| | | 7 | 20 | 11 | | | | | | | | | |
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| | 7 | 20 | 22 | | | | | | | | | | |
| | 7 | 20 | 23 | | | | | | | | | | |
| | 7 | 20 | 24 | | | | | | | | | | |
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| | 7 | 21 | 16 | | | | | | | | | | |
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| | 7 | 21 | 22 | | | | | | | | | | |
| | 7 | 21 | 23 | | | | | | | | | | |
| | 7 | 21 | 24 | | | | | | | | | | |
| | 7 | 22 | 1 | | | | | | | | | | |
| | 7 | 22 | 2 | | | | | | | | | | |
| | 7 | 22 | 3 | | | | | | | | | | |
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| | 7 | 22 | 9 | | | | | | | | | | |
| | 7 | 22 | 10 | | | | | | | | | | |
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| | 7 | 22 | 14 | | | | | | | | | | |
| | 7 | 22 | 15 | | | | | | | | | | |
| | 7 | 22 | 16 | | | | | | | | | | |
| | 7 | 22 | 17 | | | | | | | | | | |
| | 7 | 22 | 18 | | | | | | | | | | |
| | 7 | 22 | 19 | | | | | | | | | | |
| | 7 | 22 | 20 | | | | | | | | | | |
| | 7 | 22 | 21 | | | | | | | | | | |
| | 7 | 22 | 22 | | | | | | | | | | |
| | 7 | 22 | 23 | | | | | | | | | | |
| | 7 | 22 | 24 | | | | | | | | | | |
| | 7 | 23 | 1 | | | | | | | | | | |
| | 7 | 23 | 2 | | | | | | | | | | |
| | 7 | 23 | 3 | | | | | | | | | | |
| | 7 | 23 | 4 | | | | | | | | | | |
| | 7 | 23 | 5 | | | | | | | | | | |
| | 7 | 23 | 6 | | | | | | | | | | |
| | 7 | 23 | 7 | | | | | | | | | | |
| | 7 | 23 | 8 | | | | | | | | | | |
| | 7 | 23 | 9 | | | | | | | | | | |
| | 7 | 23 | 10 | | | | | | | | | | |
| | 7 | 23 | 11 | | | | | | | | | | |
| | 7 | 23 | 12 | | | | | | | | | | |
| | 7 | 23 | 13 | | | | | | | | | | |
| | 7 | 23 | 14 | | | | | | | | | | |
| | 7 | 23 | 15 | | | | | | | | | | |
| | 7 | 23 | 16 | | | | | | | | | | |
| | 7 | 23 | 17 | | | | | | | | | | |
| | 7 | 23 | 18 | | | | | | | | | | |
| | 7 | 23 | 19 | | | | | | | | | | |
| | 7 | 23 | 20 | | | | | | | | | | |
| | 7 | 23 | 21 | | | | | | | | | | |
| | 7 | 23 | 22 | | | | | | | | | | |
| | 7 | 23 | 23 | | | | | | | | | | |
| | 7 | 23 | 24 | | | | | | | | | | |
| | 7 | 24 | 1 | | | | | | | | | | |
| | 7 | 24 | 2 | | | | | | | | | | |
| | 7 | 24 | 3 | | | | | | | | | | |
| | 7 | 24 | 4 | | | | | | | | | | |
| | 7 | 24 | 5 | | | | | | | | | | |
| | 7 | 24 | 6 | | | | | | | | | | |
| | 7 | 24 | 7 | | | | | | | | | | |
| | 7 | 24 | 8 | | | | | | | | | | |
| | 7 | 24 | 9 | | | | | | | | | | |
| | 7 | 24 | 10 | | | | | | | | | | |
| | 7 | 24 | 11 | | | | | | | | | | |
| | 7 | 24 | 12 | | | | | | | | | | |
| | 7 | 24 | 13 | | | | | | | | | | |
| | 7 | 24 | 14 | | | | | | | | | | |
| | 7 | 24 | 15 | | | | | | | | | | |
| | 7 | 24 | 16 | | | | | | | | | | |
| | 7 | 24 | 17 | | | | | | | | | | |
| | 7 | 24 | 18 | | | | | | | | | | |
| | 7 | 24 | 19 | | | | | | | | | | |
| | 7 | 24 | 20 | | | | | | | | | | |
| | 7 | 24 | 21 | | | | | | | | | | |
| | 7 | 24 | 22 | | | | | | | | | | |
| | 7 | 24 | 23 | | | | | | | | | | |
| | 7 | 24 | 24 | | | | | | | | | | |
| | 7 | 25 | 1 | | | | | | | | | | |
| | 7 | 25 | 2 | | | | | | | | | | |
| | 7 | 25 | 3 | | | | | | | | | | |
| | 7 | 25 | 4 | | | | | | | | | | |
| | 7 | 25 | 5 | | | | | | | | | | |
| | 7 | 25 | 6 | | | | | | | | | | |
| | 7 | 25 | 7 | | | | | | | | | | |
| | 7 | 25 | 8 | | | | | | | | | | |
| | 7 | 25 | 9 | | | | | | | | | | |
| | 7 | 25 | 10 | | | | | | | | | | |
| | 7 | 25 | 11 | | | | | | | | | | |
| | 7 | 25 | 12 | | | | | | | | | | |
| | 7 | 25 | 13 | | | | | | | | | | |
| | 7 | 25 | 14 | | | | | | | | | | |
| | 7 | 25 | 15 | | | | | | | | | | |
| | 7 | 25 | 16 | | | | | | | | | | |
| | 7 | 25 | 17 | | | | | | | | | | |
| | 7 | 25 | 18 | | | | | | | | | | |
| | 7 | 25 | 19 | | | | | | | | | | |
| | 7 | 25 | 20 | | | | | | | | | | |
| | 7 | 25 | 21 | | | | | | | | | | |
| | 7 | 25 | 22 | | | | | | | | | | |
| | 7 | 25 | 23 | | | | | | | | | | |
| | 7 | 25 | 24 | | | | | | | | | | |
| | 7 | 26 | 1 | | | | | | | | | | |
| | 7 | 26 | 2 | | | | | | | | | | |
| | 7 | 26 | 3 | | | | | | | | | | |
| | 7 | 26 | 4 | | | | | | | | | | |
| | 7 | 26 | 5 | | | | | | | | | | |
| | 7 | 26 | 6 | | | | | | | | | | |
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| | 7 | 26 | 8 | | | | | | | | | | |
| | 7 | 26 | 9 | | | | | | | | | | |
| | 7 | 26 | 10 | | | | | | | | | | |
| | 7 | 26 | 11 | | | | | | | | | | |
| | 7 | 26 | 12 | | | | | | | | | | |
| | 7 | 26 | 13 | | | | | | | | | | |
| | 7 | 26 | 14 | | | | | | | | | | |
| | 7 | 26 | 15 | | | | | | | | | | |
| | 7 | 26 | 16 | | | | | | | | | | |
| | 7 | 26 | 17 | | | | | | | | | | |
| | 7 | 26 | 18 | | | | | | | | | | |
| | 7 | 26 | 19 | | | | | | | | | | |
| | 7 | 26 | 20 | | | | | | | | | | |
| | 7 | 26 | 21 | | | | | | | | | | |
| | 7 | 26 | 22 | | | | | | | | | | |
| | 7 | 26 | 23 | | | | | | | | | | |
| | 7 | 26 | 24 | | | | | | | | | | |
| | 7 | 27 | 1 | | | | | | | | | | |
| | 7 | 27 | 2 | | | | | | | | | | |
| | 7 | 27 | 3 | | | | | | | | | | |
| | 7 | 27 | 4 | | | | | | | | | | |
| | 7 | 27 | 5 | | | | | | | | | | |
| | 7 | 27 | 6 | | | | | | | | | | |
| | 7 | 27 | 7 | | | | | | | | | | |
| | 7 | 27 | 8 | | | | | | | | | | |
| | 7 | 27 | 9 | | | | | | | | | | |
| | 7 | 27 | 10 | | | | | | | | | | |
| | 7 | 27 | 11 | | | | | | | | | | |
| | 7 | 27 | 12 | | | | | | | | | | |
| | 7 | 27 | 13 | | | | | | | | | | |
| | 7 | 27 | 14 | | | | | | | | | | |
| | 7 | 27 | 15 | | | | | | | | | | |
| | 7 | 27 | 16 | | | | | | | | | | |
| | 7 | 27 | 17 | | | | | | | | | | |
| | 7 | 27 | 18 | | | | | | | | | | |
| | 7 | 27 | 19 | | | | | | | | | | |
| | 7 | 27 | 20 | | | | | | | | | | |
| | 7 | 27 | 21 | | | | | | | | | | |
| | 7 | 27 | 22 | | | | | | | | | | |
| | 7 | 27 | 23 | | | | | | | | | | |
| | 7 | 27 | 24 | | | | | | | | | | |
| | 7 | 28 | 1 | | | | | | | | | | |
| | 7 | 28 | 2 | | | | | | | | | | |
| | 7 | 28 | 3 | | | | | | | | | | |
| | 7 | 28 | 4 | | | | | | | | | | |
| | 7 | 28 | 5 | | | | | | | | | | |
| | 7 | 28 | 6 | | | | | | | | | | |
| | 7 | 28 | 7 | | | | | | | | | | |
| | 7 | 28 | 8 | | | | | | | | | | |
| | 7 | 28 | 9 | | | | | | | | | | |
| | 7 | 28 | 10 | | | | | | | | | | |
| | 7 | 28 | 11 | | | | | | | | | | |
| | 7 | 28 | 12 | | | | | | | | | | |
| | 7 | 28 | 13 | | | | | | | | | | |
| | 7 | 28 | 14 | | | | | | | | | | |
| | 7 | 28 | 15 | | | | | | | | | | |
| | 7 | 28 | 16 | | | | | | | | | | |
| | 7 | 28 | 17 | | | | | | | | | | |
| | 7 | 28 | 18 | | | | | | | | | | |
| | 7 | 28 | 19 | | | | | | | | | | |
| | 7 | 28 | 20 | | | | | | | | | | |
| | 7 | 28 | 21 | | | | | | | | | | |
| | 7 | 28 | 22 | | | | | | | | | | |
| | 7 | 28 | 23 | | | | | | | | | | |
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| | | 7 | 29 | 9 | | | | | | | | |
| | | 7 | 29 | 10 | | | | | | | | |
| | | 7 | 29 | 11 | | | | | | | | |
| | | 7 | 29 | 12 | | | | | | | | |
| | | 7 | 29 | 13 | | | | | | | | |
| | | 7 | 29 | 14 | | | | | | | | |
| | | 7 | 29 | 15 | | | | | | | | |
| | | 7 | 29 | 16 | | | | | | | | |
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| | | 8 | 15 | 13 | | | | | | | | | |
| | | 8 | 15 | 14 | | | | | | | | | |
| | | 8 | 15 | 15 | | | | | | | | | |
| | | 8 | 15 | 16 | | | | | | | | | |
| | | 8 | 15 | 17 | | | | | | | | | |
| | | 8 | 15 | 18 | | | | | | | | | |
| | | 8 | 15 | 19 | | | | | | | | | |
| | | 8 | 15 | 20 | | | | | | | | | |
| | | 8 | 15 | 21 | | | | | | | | | |
| | | 8 | 15 | 22 | | | | | | | | | |
| | | 8 | 15 | 23 | | | | | | | | | |
| | | 8 | 15 | 24 | | | | | | | | | |
| | | 8 | 16 | 1 | | | | | | | | | |
| | | 8 | 16 | 2 | | | | | | | | | |
| | | 8 | 16 | 3 | | | | | | | | | |
| | | 8 | 16 | 4 | | | | | | | | | |
| | | 8 | 16 | 5 | | | | | | | | | |
| | | 8 | 16 | 6 | | | | | | | | | |
| | | 8 | 16 | 7 | | | | | | | | | |
| | | 8 | 16 | 8 | | | | | | | | | |
| | | 8 | 16 | 9 | | | | | | | | | |
| | | 8 | 16 | 10 | | | | | | | | | |
| | | 8 | 16 | 11 | | | | | | | | | |
| | | 8 | 16 | 12 | | | | | | | | | |
| | | 8 | 16 | 13 | | | | | | | | | |
| | | 8 | 16 | 14 | | | | | | | | | |
| | | 8 | 16 | 15 | | | | | | | | | |
| | | 8 | 16 | 16 | | | | | | | | | |
| | | 8 | 16 | 17 | | | | | | | | | |
| | | 8 | 16 | 18 | | | | | | | | | |
| | | 8 | 16 | 19 | | | | | | | | | |
| | | 8 | 16 | 20 | | | | | | | | | |
| | | 8 | 16 | 21 | | | | | | | | | |
| | | 8 | 16 | 22 | | | | | | | | | |
| | | 8 | 16 | 23 | | | | | | | | | |
| | | 8 | 16 | 24 | | | | | | | | | |
| | | 8 | 17 | 1 | | | | | | | | | |
| | | 8 | 17 | 2 | | | | | | | | | |
| | | 8 | 17 | 3 | | | | | | | | | |
| | | 8 | 17 | 4 | | | | | | | | | |
| | | 8 | 17 | 5 | | | | | | | | | |
| | | 8 | 17 | 6 | | | | | | | | | |
| | | 8 | 17 | 7 | | | | | | | | | |
| | | 8 | 17 | 8 | | | | | | | | | |
| | | 8 | 17 | 9 | | | | | | | | | |
| | | 8 | 17 | 10 | | | | | | | | | |
| | | 8 | 17 | 11 | | | | | | | | | |
| | | 8 | 17 | 12 | | | | | | | | | |
| | | 8 | 17 | 13 | | | | | | | | | |
| | | 8 | 17 | 14 | | | | | | | | | |
| | | 8 | 17 | 15 | | | | | | | | | |
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| | | 8 | 17 | 20 | | | | | | | | | |
| | | 8 | 17 | 21 | | | | | | | | | |
| | | 8 | 17 | 22 | | | | | | | | | |
| | | 8 | 17 | 23 | | | | | | | | | |
| | | 8 | 17 | 24 | | | | | | | | | |
| | | 8 | 18 | 1 | | | | | | | | | |
| | | 8 | 18 | 2 | | | | | | | | | |
| | | 8 | 18 | 3 | | | | | | | | | |
| | | 8 | 18 | 4 | | | | | | | | | |
| | | 8 | 18 | 5 | | | | | | | | | |
| | | 8 | 18 | 6 | | | | | | | | | |
| | | 8 | 18 | 7 | | | | | | | | | |
| | | 8 | 18 | 8 | | | | | | | | | |
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| | | 8 | 18 | 10 | | | | | | | | | |
| | | 8 | 18 | 11 | | | | | | | | | |
| | | 8 | 18 | 12 | | | | | | | | | |
| | | 8 | 18 | 13 | | | | | | | | | |
| | | 8 | 18 | 14 | | | | | | | | | |
| | | 8 | 18 | 15 | | | | | | | | | |
| | | 8 | 18 | 16 | | | | | | | | | |
| | | 8 | 18 | 17 | | | | | | | | | |
| | | 8 | 18 | 18 | | | | | | | | | |
| | | 8 | 18 | 19 | | | | | | | | | |
| | | 8 | 18 | 20 | | | | | | | | | |
| | | 8 | 18 | 21 | | | | | | | | | |
| | | 8 | 18 | 22 | | | | | | | | | |
| | | 8 | 18 | 23 | | | | | | | | | |
| | | 8 | 18 | 24 | | | | | | | | | |
| | | 8 | 19 | 1 | | | | | | | | | |
| | | 8 | 19 | 2 | | | | | | | | | |
| | | 8 | 19 | 3 | | | | | | | | | |
| | | 8 | 19 | 4 | | | | | | | | | |
| | | 8 | 19 | 5 | | | | | | | | | |
| | | 8 | 19 | 6 | | | | | | | | | |
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| | | 8 | 19 | 16 | | | | | | | | | |
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| | | 8 | 19 | 23 | | | | | | | | | |
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| | | 8 | 20 | 1 | | | | | | | | | |
| | | 8 | 20 | 2 | | | | | | | | | |
| | | 8 | 20 | 3 | | | | | | | | | |
| | | 8 | 20 | 4 | | | | | | | | | |
| | | 8 | 20 | 5 | | | | | | | | | |
| | | 8 | 20 | 6 | | | | | | | | | |
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| | | 8 | 20 | 8 | | | | | | | | | |
| | | 8 | 20 | 9 | | | | | | | | | |
| | | 8 | 20 | 10 | | | | | | | | | |
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| | | 8 | 20 | 24 | | | | | | | | | |
| | | 8 | 21 | 1 | | | | | | | | | |
| | | 8 | 21 | 2 | | | | | | | | | |
| | | 8 | 21 | 3 | | | | | | | | | |
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| | | 8 | 21 | 5 | | | | | | | | | |
| | | 8 | 21 | 6 | | | | | | | | | |
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| | | 8 | 21 | 8 | | | | | | | | | |
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| | | 8 | 21 | 10 | | | | | | | | | |
| | | 8 | 21 | 11 | | | | | | | | | |
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| | | 8 | 21 | 15 | | | | | | | | | |
| | | 8 | 21 | 16 | | | | | | | | | |
| | | 8 | 21 | 17 | | | | | | | | | |
| | | 8 | 21 | 18 | | | | | | | | | |
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| | | 8 | 21 | 20 | | | | | | | | | |
| | | 8 | 21 | 21 | | | | | | | | | |
| | | 8 | 21 | 22 | | | | | | | | | |
| | | 8 | 21 | 23 | | | | | | | | | |
| | | 8 | 21 | 24 | | | | | | | | | |
| | | 8 | 22 | 1 | | | | | | | | | |
| | | 8 | 22 | 2 | | | | | | | | | |
| | | 8 | 22 | 3 | | | | | | | | | |
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| | | 8 | 22 | 5 | | | | | | | | | |
| | | 8 | 22 | 6 | | | | | | | | | |
| | | 8 | 22 | 7 | | | | | | | | | |
| | | 8 | 22 | 8 | | | | | | | | | |
| | | 8 | 22 | 9 | | | | | | | | | |
| | | 8 | 22 | 10 | | | | | | | | | |
| | | 8 | 22 | 11 | | | | | | | | | |
| | | 8 | 22 | 12 | | | | | | | | | |
| | | 8 | 22 | 13 | | | | | | | | | |
| | | 8 | 22 | 14 | | | | | | | | | |
| | | 8 | 22 | 15 | | | | | | | | | |
| | | 8 | 22 | 16 | | | | | | | | | |
| | | 8 | 22 | 17 | | | | | | | | | |
| | | 8 | 22 | 18 | | | | | | | | | |
| | | 8 | 22 | 19 | | | | | | | | | |
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| | | 8 | 22 | 22 | | | | | | | | | |
| | | 8 | 22 | 23 | | | | | | | | | |
| | | 8 | 22 | 24 | | | | | | | | | |
| | | 8 | 23 | 1 | | | | | | | | | |
| | | 8 | 23 | 2 | | | | | | | | | |
| | | 8 | 23 | 3 | | | | | | | | | |
| | | 8 | 23 | 4 | | | | | | | | | |
| | | 8 | 23 | 5 | | | | | | | | | |
| | | 8 | 23 | 6 | | | | | | | | | |
| | | 8 | 23 | 7 | | | | | | | | | |
| | | 8 | 23 | 8 | | | | | | | | | |
| | | 8 | 23 | 9 | | | | | | | | | |
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Demand Inputs

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| | | 8 | 23 | 16 | | | | | | | | | | |
| | | 8 | 23 | 17 | | | | | | | | | | |
| | | 8 | 23 | 18 | | | | | | | | | | |
| | | 8 | 23 | 19 | | | | | | | | | | |
| | | 8 | 23 | 20 | | | | | | | | | | |
| | | 8 | 23 | 21 | | | | | | | | | | |
| | | 8 | 23 | 22 | | | | | | | | | | |
| | | 8 | 23 | 23 | | | | | | | | | | |
| | | 8 | 23 | 24 | | | | | | | | | | |
| | | 8 | 24 | 1 | | | | | | | | | | |
| | | 8 | 24 | 2 | | | | | | | | | | |
| | | 8 | 24 | 3 | | | | | | | | | | |
| | | 8 | 24 | 4 | | | | | | | | | | |
| | | 8 | 24 | 5 | | | | | | | | | | |
| | | 8 | 24 | 6 | | | | | | | | | | |
| | | 8 | 24 | 7 | | | | | | | | | | |
| | | 8 | 24 | 8 | | | | | | | | | | |
| | | 8 | 24 | 9 | | | | | | | | | | |
| | | 8 | 24 | 10 | | | | | | | | | | |
| | | 8 | 24 | 11 | | | | | | | | | | |
| | | 8 | 24 | 12 | | | | | | | | | | |
| | | 8 | 24 | 13 | | | | | | | | | | |
| | | 8 | 24 | 14 | | | | | | | | | | |
| | | 8 | 24 | 15 | | | | | | | | | | |
| | | 8 | 24 | 16 | | | | | | | | | | |
| | | 8 | 24 | 17 | | | | | | | | | | |
| | | 8 | 24 | 18 | | | | | | | | | | |
| | | 8 | 24 | 19 | | | | | | | | | | |
| | | 8 | 24 | 20 | | | | | | | | | | |
| | | 8 | 24 | 21 | | | | | | | | | | |
| | | 8 | 24 | 22 | | | | | | | | | | |
| | | 8 | 24 | 23 | | | | | | | | | | |
| | | 8 | 24 | 24 | | | | | | | | | | |
| | | 8 | 25 | 1 | | | | | | | | | | |
| | | 8 | 25 | 2 | | | | | | | | | | |
| | | 8 | 25 | 3 | | | | | | | | | | |
| | | 8 | 25 | 4 | | | | | | | | | | |
| | | 8 | 25 | 5 | | | | | | | | | | |
| | | 8 | 25 | 6 | | | | | | | | | | |
| | | 8 | 25 | 7 | | | | | | | | | | |
| | | 8 | 25 | 8 | | | | | | | | | | |
| | | 8 | 25 | 9 | | | | | | | | | | |
| | | 8 | 25 | 10 | | | | | | | | | | |
| | | 8 | 25 | 11 | | | | | | | | | | |
| | | 8 | 25 | 12 | | | | | | | | | | |
| | | 8 | 25 | 13 | | | | | | | | | | |
| | | 8 | 25 | 14 | | | | | | | | | | |
| | | 8 | 25 | 15 | | | | | | | | | | |
| | | 8 | 25 | 16 | | | | | | | | | | |
| | | 8 | 25 | 17 | | | | | | | | | | |
| | | 8 | 25 | 18 | | | | | | | | | | |
| | | 8 | 25 | 19 | | | | | | | | | | |
| | | 8 | 25 | 20 | | | | | | | | | | |
| | | 8 | 25 | 21 | | | | | | | | | | |
| | | 8 | 25 | 22 | | | | | | | | | | |
| | | 8 | 25 | 23 | | | | | | | | | | |
| | | 8 | 25 | 24 | | | | | | | | | | |
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| | | 8 | 26 | 2 | | | | | | | | | | |
| | | 8 | 26 | 3 | | | | | | | | | | |
| | | 8 | 26 | 4 | | | | | | | | | | |
| | | 8 | 26 | 5 | | | | | | | | | | |
| | | 8 | 26 | 6 | | | | | | | | | | |
| | | 8 | 26 | 7 | | | | | | | | | | |
| | | 8 | 26 | 8 | | | | | | | | | | |
| | | 8 | 26 | 9 | | | | | | | | | | |
| | | 8 | 26 | 10 | | | | | | | | | | |
| | | 8 | 26 | 11 | | | | | | | | | | |
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| | | 8 | 26 | 13 | | | | | | | | | | |
| | | 8 | 26 | 14 | | | | | | | | | | |
| | | 8 | 26 | 15 | | | | | | | | | | |
| | | 8 | 26 | 16 | | | | | | | | | | |
| | | 8 | 26 | 17 | | | | | | | | | | |
| | | 8 | 26 | 18 | | | | | | | | | | |
| | | 8 | 26 | 19 | | | | | | | | | | |
| | | 8 | 26 | 20 | | | | | | | | | | |
| | | 8 | 26 | 21 | | | | | | | | | | |
| | | 8 | 26 | 22 | | | | | | | | | | |
| | | 8 | 26 | 23 | | | | | | | | | | |
| | | 8 | 26 | 24 | | | | | | | | | | |
| | | 8 | 27 | 1 | | | | | | | | | | |
| | | 8 | 27 | 2 | | | | | | | | | | |
| | | 8 | 27 | 3 | | | | | | | | | | |
| | | 8 | 27 | 4 | | | | | | | | | | |
| | | 8 | 27 | 5 | | | | | | | | | | |
| | | 8 | 27 | 6 | | | | | | | | | | |
| | | 8 | 27 | 7 | | | | | | | | | | |
| | | 8 | 27 | 8 | | | | | | | | | | |
| | | 8 | 27 | 9 | | | | | | | | | | |
| | | 8 | 27 | 10 | | | | | | | | | | |
| | | 8 | 27 | 11 | | | | | | | | | | |
| | | 8 | 27 | 12 | | | | | | | | | | |
| | | 8 | 27 | 13 | | | | | | | | | | |
| | | 8 | 27 | 14 | | | | | | | | | | |
| | | 8 | 27 | 15 | | | | | | | | | | |
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| | | 8 | 27 | 17 | | | | | | | | | | |
| | | 8 | 27 | 18 | | | | | | | | | | |
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| | | 8 | 27 | 22 | | | | | | | | | | |
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| | | 8 | 27 | 24 | | | | | | | | | | |
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| | | 8 | 28 | 2 | | | | | | | | | | |
| | | 8 | 28 | 3 | | | | | | | | | | |
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| | | 8 | 28 | 5 | | | | | | | | | | |
| | | 8 | 28 | 6 | | | | | | | | | | |
| | | 8 | 28 | 7 | | | | | | | | | | |
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| | | 8 | 28 | 9 | | | | | | | | | | |
| | | 8 | 28 | 10 | | | | | | | | | | |
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| | | 8 | 28 | 12 | | | | | | | | | | |
| | | 8 | 28 | 13 | | | | | | | | | | |
| | | 8 | 28 | 14 | | | | | | | | | | |
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| | | 8 | 28 | 16 | | | | | | | | | | |
| | | 8 | 28 | 17 | | | | | | | | | | |
| | | 8 | 28 | 18 | | | | | | | | | | |
| | | 8 | 28 | 19 | | | | | | | | | | |
| | | 8 | 28 | 20 | | | | | | | | | | |
| | | 8 | 28 | 21 | | | | | | | | | | |
| | | 8 | 28 | 22 | | | | | | | | | | |
| | | 8 | 28 | 23 | | | | | | | | | | |
| | | 8 | 28 | 24 | | | | | | | | | | |
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| | | 8 | 29 | 2 | | | | | | | | | | |
| | | 8 | 29 | 3 | | | | | | | | | | |
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| | | 8 | 29 | 5 | | | | | | | | | | |
| | | 8 | 29 | 6 | | | | | | | | | | |
| | | 8 | 29 | 7 | | | | | | | | | | |
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| | | 8 | 29 | 10 | | | | | | | | | | |
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| | | 8 | 29 | 13 | | | | | | | | | | |
| | | 8 | 29 | 14 | | | | | | | | | | |
| | | 8 | 29 | 15 | | | | | | | | | | |
| | | 8 | 29 | 16 | | | | | | | | | | |
| | | 8 | 29 | 17 | | | | | | | | | | |
| | | 8 | 29 | 18 | | | | | | | | | | |
| | | 8 | 29 | 19 | | | | | | | | | | |
| | | 8 | 29 | 20 | | | | | | | | | | |
| | | 8 | 29 | 21 | | | | | | | | | | |
| | | 8 | 29 | 22 | | | | | | | | | | |
| | | 8 | 29 | 23 | | | | | | | | | | |
| | | 8 | 29 | 24 | | | | | | | | | | |
| | | 8 | 30 | 1 | | | | | | | | | | |
| | | 8 | 30 | 2 | | | | | | | | | | |
| | | 8 | 30 | 3 | | | | | | | | | | |
| | | 8 | 30 | 4 | | | | | | | | | | |
| | | 8 | 30 | 5 | | | | | | | | | | |
| | | 8 | 30 | 6 | | | | | | | | | | |
| | | 8 | 30 | 7 | | | | | | | | | | |
| | | 8 | 30 | 8 | | | | | | | | | | |
| | | 8 | 30 | 9 | | | | | | | | | | |
| | | 8 | 30 | 10 | | | | | | | | | | |
| | | 8 | 30 | 11 | | | | | | | | | | |
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| | | 8 | 30 | 13 | | | | | | | | | | |
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| | | 8 | 30 | 17 | | | | | | | | | | |
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| | | 8 | 31 | 1 | | | | | | | | | | |
| | | 8 | 31 | 2 | | | | | | | | | | |
| | | 8 | 31 | 3 | | | | | | | | | | |
| | | 8 | 31 | 4 | | | | | | | | | | |
| | | 8 | 31 | 5 | | | | | | | | | | |
| | | 8 | 31 | 6 | | | | | | | | | | |
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| | | 8 | 31 | 9 | | | | | | | | | | |
| | | 8 | 31 | 10 | | | | | | | | | | |
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| | | 9 | 1 | 5 | | | | | | | | | |
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| | | 9 | 1 | 8 | | | | | | | | | |
| | | 9 | 1 | 9 | | | | | | | | | |
| | | 9 | 1 | 10 | | | | | | | | | |
| | | 9 | 1 | 11 | | | | | | | | | |
| | | 9 | 1 | 12 | | | | | | | | | |
| | | 9 | 1 | 13 | | | | | | | | | |
| | | 9 | 1 | 14 | | | | | | | | | |
| | | 9 | 1 | 15 | | | | | | | | | |
| | | 9 | 1 | 16 | | | | | | | | | |
| | | 9 | 1 | 17 | | | | | | | | | |
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| | | 9 | 1 | 20 | | | | | | | | | |
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| | | 9 | 10 | 24 | | | | | | | | | |
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| | | 9 | 18 | 3 | | | | | | | | | |
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| | | 9 | 18 | 24 | | | | | | | | | |
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| | | 10 | 7 | 24 | | | | | | | | | |
| | | 10 | 8 | 1 | | | | | | | | | |
| | | 10 | 8 | 2 | | | | | | | | | |
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| | | 10 | 8 | 19 | | | | | | | | | |
| | | 10 | 8 | 20 | | | | | | | | | |
| | | 10 | 8 | 21 | | | | | | | | | |
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| | | 10 | 8 | 23 | | | | | | | | | |
| | | 10 | 8 | 24 | | | | | | | | | |
| | | 10 | 9 | 1 | | | | | | | | | |
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| | | 10 | 9 | 5 | | | | | | | | | |
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| | | 10 | 9 | 7 | | | | | | | | | |
| | | 10 | 9 | 8 | | | | | | | | | |
| | | 10 | 9 | 9 | | | | | | | | | |
| | | 10 | 9 | 10 | | | | | | | | | |
| | | 10 | 9 | 11 | | | | | | | | | |
| | | 10 | 9 | 12 | | | | | | | | | |
| | | 10 | 9 | 13 | | | | | | | | | |
| | | 10 | 9 | 14 | | | | | | | | | |
| | | 10 | 9 | 15 | | | | | | | | | |
| | | 10 | 9 | 16 | | | | | | | | | |
| | | 10 | 9 | 17 | | | | | | | | | |
| | | 10 | 9 | 18 | | | | | | | | | |
| | | 10 | 9 | 19 | | | | | | | | | |
| | | 10 | 9 | 20 | | | | | | | | | |
| | | 10 | 9 | 21 | | | | | | | | | |
| | | 10 | 9 | 22 | | | | | | | | | |
| | | 10 | 9 | 23 | | | | | | | | | |
| | | 10 | 9 | 24 | | | | | | | | | |
| | | 10 | 10 | 1 | | | | | | | | | |
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| | | 10 | 10 | 3 | | | | | | | | | |
| | | 10 | 10 | 4 | | | | | | | | | |
| | | 10 | 10 | 5 | | | | | | | | | |
| | | 10 | 10 | 6 | | | | | | | | | |
| | | 10 | 10 | 7 | | | | | | | | | |
| | | 10 | 10 | 8 | | | | | | | | | |
| | | 10 | 10 | 9 | | | | | | | | | |
| | | 10 | 10 | 10 | | | | | | | | | |
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| | | 10 | 10 | 13 | | | | | | | | | |
| | | 10 | 10 | 14 | | | | | | | | | |
| | | 10 | 10 | 15 | | | | | | | | | |
| | | 10 | 10 | 16 | | | | | | | | | |
| | | 10 | 10 | 17 | | | | | | | | | |
| | | 10 | 10 | 18 | | | | | | | | | |
| | | 10 | 10 | 19 | | | | | | | | | |
| | | 10 | 10 | 20 | | | | | | | | | |
| | | 10 | 10 | 21 | | | | | | | | | |
| | | 10 | 10 | 22 | | | | | | | | | |
| | | 10 | 10 | 23 | | | | | | | | | |
| | | 10 | 10 | 24 | | | | | | | | | |
| | | 10 | 11 | 1 | | | | | | | | | |
| | | 10 | 11 | 2 | | | | | | | | | |
| | | 10 | 11 | 3 | | | | | | | | | |
| | | 10 | 11 | 4 | | | | | | | | | |
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| | | 10 | 11 | 6 | | | | | | | | | |
| | | 10 | 11 | 7 | | | | | | | | | |
| | | 10 | 11 | 8 | | | | | | | | | |
| | | 10 | 11 | 9 | | | | | | | | | |
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| | | 10 | 11 | 14 | | | | | | | | | |
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| | | 10 | 11 | 16 | | | | | | | | | |
| | | 10 | 11 | 17 | | | | | | | | | |
| | | 10 | 11 | 18 | | | | | | | | | |
| | | 10 | 11 | 19 | | | | | | | | | |
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| | | 10 | 11 | 21 | | | | | | | | | |
| | | 10 | 11 | 22 | | | | | | | | | |
| | | 10 | 11 | 23 | | | | | | | | | |
| | | 10 | 11 | 24 | | | | | | | | | |
| | | 10 | 12 | 1 | | | | | | | | | |
| | | 10 | 12 | 2 | | | | | | | | | |
| | | 10 | 12 | 3 | | | | | | | | | |
| | | 10 | 12 | 4 | | | | | | | | | |
| | | 10 | 12 | 5 | | | | | | | | | |
| | | 10 | 12 | 6 | | | | | | | | | |
| | | 10 | 12 | 7 | | | | | | | | | |
| | | 10 | 12 | 8 | | | | | | | | | |
| | | 10 | 12 | 9 | | | | | | | | | |
| | | 10 | 12 | 10 | | | | | | | | | |
| | | 10 | 12 | 11 | | | | | | | | | |
| | | 10 | 12 | 12 | | | | | | | | | |
| | | 10 | 12 | 13 | | | | | | | | | |
| | | 10 | 12 | 14 | | | | | | | | | |
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| | | 10 | 12 | 16 | | | | | | | | | |
| | | 10 | 12 | 17 | | | | | | | | | |
| | | 10 | 12 | 18 | | | | | | | | | |
| | | 10 | 12 | 19 | | | | | | | | | |
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| | | 10 | 12 | 21 | | | | | | | | | |
| | | 10 | 12 | 22 | | | | | | | | | |
| | | 10 | 12 | 23 | | | | | | | | | |
| | | 10 | 12 | 24 | | | | | | | | | |
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Demand Inputs

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| | | 10 | 13 | 11 | | | | | | | | | |
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| | | 10 | 14 | 12 | | | | | | | | | |
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| | | 10 | 14 | 23 | | | | | | | | | |
| | | 10 | 14 | 24 | | | | | | | | | |
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| | | 10 | 15 | 11 | | | | | | | | | |
| | | 10 | 15 | 12 | | | | | | | | | |
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| | | 10 | 15 | 22 | | | | | | | | | |
| | | 10 | 15 | 23 | | | | | | | | | |
| | | 10 | 15 | 24 | | | | | | | | | |
| | | 10 | 16 | 1 | | | | | | | | | |
| | | 10 | 16 | 2 | | | | | | | | | |
| | | 10 | 16 | 3 | | | | | | | | | |
| | | 10 | 16 | 4 | | | | | | | | | |
| | | 10 | 16 | 5 | | | | | | | | | |
| | | 10 | 16 | 6 | | | | | | | | | |
| | | 10 | 16 | 7 | | | | | | | | | |
| | | 10 | 16 | 8 | | | | | | | | | |
| | | 10 | 16 | 9 | | | | | | | | | |
| | | 10 | 16 | 10 | | | | | | | | | |
| | | 10 | 16 | 11 | | | | | | | | | |
| | | 10 | 16 | 12 | | | | | | | | | |
| | | 10 | 16 | 13 | | | | | | | | | |
| | | 10 | 16 | 14 | | | | | | | | | |
| | | 10 | 16 | 15 | | | | | | | | | |
| | | 10 | 16 | 16 | | | | | | | | | |
| | | 10 | 16 | 17 | | | | | | | | | |
| | | 10 | 16 | 18 | | | | | | | | | |
| | | 10 | 16 | 19 | | | | | | | | | |
| | | 10 | 16 | 20 | | | | | | | | | |
| | | 10 | 16 | 21 | | | | | | | | | |
| | | 10 | 16 | 22 | | | | | | | | | |
| | | 10 | 16 | 23 | | | | | | | | | |
| | | 10 | 16 | 24 | | | | | | | | | |
| | | 10 | 17 | 1 | | | | | | | | | |
| | | 10 | 17 | 2 | | | | | | | | | |
| | | 10 | 17 | 3 | | | | | | | | | |
| | | 10 | 17 | 4 | | | | | | | | | |
| | | 10 | 17 | 5 | | | | | | | | | |
| | | 10 | 17 | 6 | | | | | | | | | |
| | | 10 | 17 | 7 | | | | | | | | | |
| | | 10 | 17 | 8 | | | | | | | | | |
| | | 10 | 17 | 9 | | | | | | | | | |
| | | 10 | 17 | 10 | | | | | | | | | |
| | | 10 | 17 | 11 | | | | | | | | | |
| | | 10 | 17 | 12 | | | | | | | | | |
| | | 10 | 17 | 13 | | | | | | | | | |
| | | 10 | 17 | 14 | | | | | | | | | |
| | | 10 | 17 | 15 | | | | | | | | | |
| | | 10 | 17 | 16 | | | | | | | | | |
| | | 10 | 17 | 17 | | | | | | | | | |
| | | 10 | 17 | 18 | | | | | | | | | |
| | | 10 | 17 | 19 | | | | | | | | | |
| | | 10 | 17 | 20 | | | | | | | | | |
| | | 10 | 17 | 21 | | | | | | | | | |
| | | 10 | 17 | 22 | | | | | | | | | |
| | | 10 | 17 | 23 | | | | | | | | | |
| | | 10 | 17 | 24 | | | | | | | | | |
| | | 10 | 18 | 1 | | | | | | | | | |
| | | 10 | 18 | 2 | | | | | | | | | |
| | | 10 | 18 | 3 | | | | | | | | | |
| | | 10 | 18 | 4 | | | | | | | | | |
| | | 10 | 18 | 5 | | | | | | | | | |
| | | 10 | 18 | 6 | | | | | | | | | |
| | | 10 | 18 | 7 | | | | | | | | | |
| | | 10 | 18 | 8 | | | | | | | | | |
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| | | 10 | 18 | 10 | | | | | | | | | |
| | | 10 | 18 | 11 | | | | | | | | | |
| | | 10 | 18 | 12 | | | | | | | | | |
| | | 10 | 18 | 13 | | | | | | | | | |
| | | 10 | 18 | 14 | | | | | | | | | |
| | | 10 | 18 | 15 | | | | | | | | | |
| | | 10 | 18 | 16 | | | | | | | | | |
| | | 10 | 18 | 17 | | | | | | | | | |
| | | 10 | 18 | 18 | | | | | | | | | |
| | | 10 | 18 | 19 | | | | | | | | | |
| | | 10 | 18 | 20 | | | | | | | | | |
| | | 10 | 18 | 21 | | | | | | | | | |
| | | 10 | 18 | 22 | | | | | | | | | |
| | | 10 | 18 | 23 | | | | | | | | | |
| | | 10 | 18 | 24 | | | | | | | | | |
| | | 10 | 19 | 1 | | | | | | | | | |
| | | 10 | 19 | 2 | | | | | | | | | |
| | | 10 | 19 | 3 | | | | | | | | | |
| | | 10 | 19 | 4 | | | | | | | | | |
| | | 10 | 19 | 5 | | | | | | | | | |
| | | 10 | 19 | 6 | | | | | | | | | |
| | | 10 | 19 | 7 | | | | | | | | | |
| | | 10 | 19 | 8 | | | | | | | | | |
| | | 10 | 19 | 9 | | | | | | | | | |
| | | 10 | 19 | 10 | | | | | | | | | |
| | | 10 | 19 | 11 | | | | | | | | | |
| | | 10 | 19 | 12 | | | | | | | | | |
| | | 10 | 19 | 13 | | | | | | | | | |
| | | 10 | 19 | 14 | | | | | | | | | |
| | | 10 | 19 | 15 | | | | | | | | | |
| | | 10 | 19 | 16 | | | | | | | | | |
| | | 10 | 19 | 17 | | | | | | | | | |
| | | 10 | 19 | 18 | | | | | | | | | |
| | | 10 | 19 | 19 | | | | | | | | | |
| | | 10 | 19 | 20 | | | | | | | | | |
| | | 10 | 19 | 21 | | | | | | | | | |
| | | 10 | 19 | 22 | | | | | | | | | |
| | | 10 | 19 | 23 | | | | | | | | | |
| | | 10 | 19 | 24 | | | | | | | | | |
| | | 10 | 20 | 1 | | | | | | | | | |
| | | 10 | 20 | 2 | | | | | | | | | |
| | | 10 | 20 | 3 | | | | | | | | | |
| | | 10 | 20 | 4 | | | | | | | | | |
| | | 10 | 20 | 5 | | | | | | | | | |
| | | 10 | 20 | 6 | | | | | | | | | |
| | | 10 | 20 | 7 | | | | | | | | | |
| | | 10 | 20 | 8 | | | | | | | | | |
| | | 10 | 20 | 9 | | | | | | | | | |
| | | 10 | 20 | 10 | | | | | | | | | |
| | | 10 | 20 | 11 | | | | | | | | | |
| | | 10 | 20 | 12 | | | | | | | | | |
| | | 10 | 20 | 13 | | | | | | | | | |
| | | 10 | 20 | 14 | | | | | | | | | |
| | | 10 | 20 | 15 | | | | | | | | | |
| | | 10 | 20 | 16 | | | | | | | | | |
| | | 10 | 20 | 17 | | | | | | | | | |
| | | 10 | 20 | 18 | | | | | | | | | |
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| | | 10 | 20 | 20 | | | | | | | | | |
| | | 10 | 20 | 21 | | | | | | | | | |
| | | 10 | 20 | 22 | | | | | | | | | |
| | | 10 | 20 | 23 | | | | | | | | | |
| | | 10 | 20 | 24 | | | | | | | | | |
| | | 10 | 21 | 1 | | | | | | | | | |
| | | 10 | 21 | 2 | | | | | | | | | |
| | | 10 | 21 | 3 | | | | | | | | | |
| | | 10 | 21 | 4 | | | | | | | | | |
| | | 10 | 21 | 5 | | | | | | | | | |
| | | 10 | 21 | 6 | | | | | | | | | |
| | | 10 | 21 | 7 | | | | | | | | | |
| | | 10 | 21 | 8 | | | | | | | | | |
| | | 10 | 21 | 9 | | | | | | | | | |
| | | 10 | 21 | 10 | | | | | | | | | |
| | | 10 | 21 | 11 | | | | | | | | | |
| | | 10 | 21 | 12 | | | | | | | | | |
| | | 10 | 21 | 13 | | | | | | | | | |
| | | 10 | 21 | 14 | | | | | | | | | |
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Demand Inputs

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| | | 10 | 21 | 22 | | | | | | | | | |
| | | 10 | 21 | 23 | | | | | | | | | |
| | | 10 | 21 | 24 | | | | | | | | | |
| | | 10 | 22 | 1 | | | | | | | | | |
| | | 10 | 22 | 2 | | | | | | | | | |
| | | 10 | 22 | 3 | | | | | | | | | |
| | | 10 | 22 | 4 | | | | | | | | | |
| | | 10 | 22 | 5 | | | | | | | | | |
| | | 10 | 22 | 6 | | | | | | | | | |
| | | 10 | 22 | 7 | | | | | | | | | |
| | | 10 | 22 | 8 | | | | | | | | | |
| | | 10 | 22 | 9 | | | | | | | | | |
| | | 10 | 22 | 10 | | | | | | | | | |
| | | 10 | 22 | 11 | | | | | | | | | |
| | | 10 | 22 | 12 | | | | | | | | | |
| | | 10 | 22 | 13 | | | | | | | | | |
| | | 10 | 22 | 14 | | | | | | | | | |
| | | 10 | 22 | 15 | | | | | | | | | |
| | | 10 | 22 | 16 | | | | | | | | | |
| | | 10 | 22 | 17 | | | | | | | | | |
| | | 10 | 22 | 18 | | | | | | | | | |
| | | 10 | 22 | 19 | | | | | | | | | |
| | | 10 | 22 | 20 | | | | | | | | | |
| | | 10 | 22 | 21 | | | | | | | | | |
| | | 10 | 22 | 22 | | | | | | | | | |
| | | 10 | 22 | 23 | | | | | | | | | |
| | | 10 | 22 | 24 | | | | | | | | | |
| | | 10 | 23 | 1 | | | | | | | | | |
| | | 10 | 23 | 2 | | | | | | | | | |
| | | 10 | 23 | 3 | | | | | | | | | |
| | | 10 | 23 | 4 | | | | | | | | | |
| | | 10 | 23 | 5 | | | | | | | | | |
| | | 10 | 23 | 6 | | | | | | | | | |
| | | 10 | 23 | 7 | | | | | | | | | |
| | | 10 | 23 | 8 | | | | | | | | | |
| | | 10 | 23 | 9 | | | | | | | | | |
| | | 10 | 23 | 10 | | | | | | | | | |
| | | 10 | 23 | 11 | | | | | | | | | |
| | | 10 | 23 | 12 | | | | | | | | | |
| | | 10 | 23 | 13 | | | | | | | | | |
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| | | 10 | 23 | 17 | | | | | | | | | |
| | | 10 | 23 | 18 | | | | | | | | | |
| | | 10 | 23 | 19 | | | | | | | | | |
| | | 10 | 23 | 20 | | | | | | | | | |
| | | 10 | 23 | 21 | | | | | | | | | |
| | | 10 | 23 | 22 | | | | | | | | | |
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| | | 10 | 24 | 3 | | | | | | | | | |
| | | 10 | 24 | 4 | | | | | | | | | |
| | | 10 | 24 | 5 | | | | | | | | | |
| | | 10 | 24 | 6 | | | | | | | | | |
| | | 10 | 24 | 7 | | | | | | | | | |
| | | 10 | 24 | 8 | | | | | | | | | |
| | | 10 | 24 | 9 | | | | | | | | | |
| | | 10 | 24 | 10 | | | | | | | | | |
| | | 10 | 24 | 11 | | | | | | | | | |
| | | 10 | 24 | 12 | | | | | | | | | |
| | | 10 | 24 | 13 | | | | | | | | | |
| | | 10 | 24 | 14 | | | | | | | | | |
| | | 10 | 24 | 15 | | | | | | | | | |
| | | 10 | 24 | 16 | | | | | | | | | |
| | | 10 | 24 | 17 | | | | | | | | | |
| | | 10 | 24 | 18 | | | | | | | | | |
| | | 10 | 24 | 19 | | | | | | | | | |
| | | 10 | 24 | 20 | | | | | | | | | |
| | | 10 | 24 | 21 | | | | | | | | | |
| | | 10 | 24 | 22 | | | | | | | | | |
| | | 10 | 24 | 23 | | | | | | | | | |
| | | 10 | 24 | 24 | | | | | | | | | |
| | | 10 | 25 | 1 | | | | | | | | | |
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| | | 10 | 25 | 4 | | | | | | | | | |
| | | 10 | 25 | 5 | | | | | | | | | |
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| | | 10 | 25 | 8 | | | | | | | | | |
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| | | 10 | 25 | 10 | | | | | | | | | |
| | | 10 | 25 | 11 | | | | | | | | | |
| | | 10 | 25 | 12 | | | | | | | | | |
| | | 10 | 25 | 13 | | | | | | | | | |
| | | 10 | 25 | 14 | | | | | | | | | |
| | | 10 | 25 | 15 | | | | | | | | | |
| | | 10 | 25 | 16 | | | | | | | | | |
| | | 10 | 25 | 17 | | | | | | | | | |
| | | 10 | 25 | 18 | | | | | | | | | |
| | | 10 | 25 | 19 | | | | | | | | | |
| | | 10 | 25 | 20 | | | | | | | | | |
| | | 10 | 25 | 21 | | | | | | | | | |
| | | 10 | 25 | 22 | | | | | | | | | |
| | | 10 | 25 | 23 | | | | | | | | | |
| | | 10 | 25 | 24 | | | | | | | | | |
| | | 10 | 26 | 1 | | | | | | | | | |
| | | 10 | 26 | 2 | | | | | | | | | |
| | | 10 | 26 | 3 | | | | | | | | | |
| | | 10 | 26 | 4 | | | | | | | | | |
| | | 10 | 26 | 5 | | | | | | | | | |
| | | 10 | 26 | 6 | | | | | | | | | |
| | | 10 | 26 | 7 | | | | | | | | | |
| | | 10 | 26 | 8 | | | | | | | | | |
| | | 10 | 26 | 9 | | | | | | | | | |
| | | 10 | 26 | 10 | | | | | | | | | |
| | | 10 | 26 | 11 | | | | | | | | | |
| | | 10 | 26 | 12 | | | | | | | | | |
| | | 10 | 26 | 13 | | | | | | | | | |
| | | 10 | 26 | 14 | | | | | | | | | |
| | | 10 | 26 | 15 | | | | | | | | | |
| | | 10 | 26 | 16 | | | | | | | | | |
| | | 10 | 26 | 17 | | | | | | | | | |
| | | 10 | 26 | 18 | | | | | | | | | |
| | | 10 | 26 | 19 | | | | | | | | | |
| | | 10 | 26 | 20 | | | | | | | | | |
| | | 10 | 26 | 21 | | | | | | | | | |
| | | 10 | 26 | 22 | | | | | | | | | |
| | | 10 | 26 | 23 | | | | | | | | | |
| | | 10 | 26 | 24 | | | | | | | | | |
| | | 10 | 27 | 1 | | | | | | | | | |
| | | 10 | 27 | 2 | | | | | | | | | |
| | | 10 | 27 | 3 | | | | | | | | | |
| | | 10 | 27 | 4 | | | | | | | | | |
| | | 10 | 27 | 5 | | | | | | | | | |
| | | 10 | 27 | 6 | | | | | | | | | |
| | | 10 | 27 | 7 | | | | | | | | | |
| | | 10 | 27 | 8 | | | | | | | | | |
| | | 10 | 27 | 9 | | | | | | | | | |
| | | 10 | 27 | 10 | | | | | | | | | |
| | | 10 | 27 | 11 | | | | | | | | | |
| | | 10 | 27 | 12 | | | | | | | | | |
| | | 10 | 27 | 13 | | | | | | | | | |
| | | 10 | 27 | 14 | | | | | | | | | |
| | | 10 | 27 | 15 | | | | | | | | | |
| | | 10 | 27 | 16 | | | | | | | | | |
| | | 10 | 27 | 17 | | | | | | | | | |
| | | 10 | 27 | 18 | | | | | | | | | |
| | | 10 | 27 | 19 | | | | | | | | | |
| | | 10 | 27 | 20 | | | | | | | | | |
| | | 10 | 27 | 21 | | | | | | | | | |
| | | 10 | 27 | 22 | | | | | | | | | |
| | | 10 | 27 | 23 | | | | | | | | | |
| | | 10 | 27 | 24 | | | | | | | | | |
| | | 10 | 28 | 1 | | | | | | | | | |
| | | 10 | 28 | 2 | | | | | | | | | |
| | | 10 | 28 | 3 | | | | | | | | | |
| | | 10 | 28 | 4 | | | | | | | | | |
| | | 10 | 28 | 5 | | | | | | | | | |
| | | 10 | 28 | 6 | | | | | | | | | |
| | | 10 | 28 | 7 | | | | | | | | | |
| | | 10 | 28 | 8 | | | | | | | | | |
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| | | 10 | 28 | 10 | | | | | | | | | |
| | | 10 | 28 | 11 | | | | | | | | | |
| | | 10 | 28 | 12 | | | | | | | | | |
| | | 10 | 28 | 13 | | | | | | | | | |
| | | 10 | 28 | 14 | | | | | | | | | |
| | | 10 | 28 | 15 | | | | | | | | | |
| | | 10 | 28 | 16 | | | | | | | | | |
| | | 10 | 28 | 17 | | | | | | | | | |
| | | 10 | 28 | 18 | | | | | | | | | |
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| | | 10 | 28 | 20 | | | | | | | | | |
| | | 10 | 28 | 21 | | | | | | | | | |
| | | 10 | 28 | 22 | | | | | | | | | |
| | | 10 | 28 | 23 | | | | | | | | | |
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| | | 10 | 29 | 3 | | | | | | | | | |
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| | | 10 | 29 | 5 | | | | | | | | | |
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| | | 10 | 29 | 9 | | | | | | | | | |
| | | 10 | 29 | 10 | | | | | | | | | |
| | | 10 | 29 | 11 | | | | | | | | | |
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| | | 10 | 29 | 13 | | | | | | | | | |
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| | | 10 | 29 | 15 | | | | | | | | | |
| | | 10 | 29 | 16 | | | | | | | | | |
| | | 10 | 29 | 17 | | | | | | | | | |
| | | 10 | 29 | 18 | | | | | | | | | |
| | | 10 | 29 | 19 | | | | | | | | | |
| | | 10 | 29 | 20 | | | | | | | | | |
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| | | 10 | 29 | 22 | | | | | | | | | |
| | | 10 | 29 | 23 | | | | | | | | | |
| | | 10 | 29 | 24 | | | | | | | | | |
| | | 10 | 30 | 1 | | | | | | | | | |
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| | | 10 | 30 | 9 | | | | | | | | |
| | | 10 | 30 | 10 | | | | | | | | |
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| | | 10 | 30 | 12 | | | | | | | | |
| | | 10 | 30 | 13 | | | | | | | | |
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| | | 10 | 30 | 15 | | | | | | | | |
| | | 10 | 30 | 16 | | | | | | | | |
| | | 10 | 30 | 17 | | | | | | | | |
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| | | 10 | 30 | 22 | | | | | | | | |
| | | 10 | 30 | 23 | | | | | | | | |
| | | 10 | 30 | 24 | | | | | | | | |
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| | | 10 | 31 | 5 | | | | | | | | |
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| | | 10 | 31 | 7 | | | | | | | | |
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| | | 10 | 31 | 12 | | | | | | | | |
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| | | 10 | 31 | 16 | | | | | | | | |
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| | | 10 | 31 | 18 | | | | | | | | |
| | | 10 | 31 | 19 | | | | | | | | |
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| | | 10 | 31 | 22 | | | | | | | | |
| | | 10 | 31 | 23 | | | | | | | | |
| | | 10 | 31 | 24 | | | | | | | | |
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| | | 11 | 1 | 23 | | | | | | | | |
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| | | 11 | 2 | 11 | | | | | | | | |
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| | | 11 | 2 | 13 | | | | | | | | |
| | | 11 | 2 | 14 | | | | | | | | |
| | | 11 | 2 | 15 | | | | | | | | |
| | | 11 | 2 | 16 | | | | | | | | |
| | | 11 | 2 | 17 | | | | | | | | |
| | | 11 | 2 | 18 | | | | | | | | |
| | | 11 | 2 | 19 | | | | | | | | |
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| | | 11 | 2 | 21 | | | | | | | | |
| | | 11 | 2 | 22 | | | | | | | | |
| | | 11 | 2 | 23 | | | | | | | | |
| | | 11 | 2 | 24 | | | | | | | | |
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| | | 11 | 3 | 2 | | | | | | | | |
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| | | 11 | 3 | 6 | | | | | | | | |
| | | 11 | 3 | 7 | | | | | | | | |
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| | | 11 | 3 | 9 | | | | | | | | |
| | | 11 | 3 | 10 | | | | | | | | |
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| | | 11 | 3 | 12 | | | | | | | | |
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| | | 11 | 3 | 14 | | | | | | | | |
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| | | 11 | 3 | 19 | | | | | | | | |
| | | 11 | 3 | 20 | | | | | | | | |
| | | 11 | 3 | 21 | | | | | | | | |
| | | 11 | 3 | 22 | | | | | | | | |
| | | 11 | 3 | 23 | | | | | | | | |
| | | 11 | 3 | 24 | | | | | | | | |
| | | 11 | 4 | 1 | | | | | | | | |
| | | 11 | 4 | 2 | | | | | | | | |
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| | | 11 | 4 | 4 | | | | | | | | |
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| | | 11 | 4 | 6 | | | | | | | | |
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| | | 11 | 4 | 8 | | | | | | | | |
| | | 11 | 4 | 9 | | | | | | | | |
| | | 11 | 4 | 10 | | | | | | | | |
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| | | 11 | 4 | 14 | | | | | | | | |
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| | | 11 | 4 | 17 | | | | | | | | |
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| | | 11 | 4 | 20 | | | | | | | | |
| | | 11 | 4 | 21 | | | | | | | | |
| | | 11 | 4 | 22 | | | | | | | | |
| | | 11 | 4 | 23 | | | | | | | | |
| | | 11 | 4 | 24 | | | | | | | | |
| | | 11 | 5 | 1 | | | | | | | | |
| | | 11 | 5 | 2 | | | | | | | | |
| | | 11 | 5 | 3 | | | | | | | | |
| | | 11 | 5 | 4 | | | | | | | | |
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| | | 11 | 5 | 9 | | | | | | | | |
| | | 11 | 5 | 10 | | | | | | | | |
| | | 11 | 5 | 11 | | | | | | | | |
| | | 11 | 5 | 12 | | | | | | | | |
| | | 11 | 5 | 13 | | | | | | | | |
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| | | 11 | 5 | 16 | | | | | | | | |
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| | | 11 | 5 | 22 | | | | | | | | |
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| | | 11 | 6 | 1 | | | | | | | | |
| | | 11 | 6 | 2 | | | | | | | | |
| | | 11 | 6 | 3 | | | | | | | | |
| | | 11 | 6 | 4 | | | | | | | | |
| | | 11 | 6 | 5 | | | | | | | | |
| | | 11 | 6 | 6 | | | | | | | | |
| | | 11 | 6 | 7 | | | | | | | | |
| | | 11 | 6 | 8 | | | | | | | | |
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| | | 11 | 6 | 10 | | | | | | | | |
| | | 11 | 6 | 11 | | | | | | | | |
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| | | 11 | 6 | 13 | | | | | | | | |
| | | 11 | 6 | 14 | | | | | | | | |
| | | 11 | 6 | 15 | | | | | | | | |
| | | 11 | 6 | 16 | | | | | | | | |
| | | 11 | 6 | 17 | | | | | | | | |
| | | 11 | 6 | 18 | | | | | | | | |
| | | 11 | 6 | 19 | | | | | | | | |
| | | 11 | 6 | 20 | | | | | | | | |
| | | 11 | 6 | 21 | | | | | | | | |
| | | 11 | 6 | 22 | | | | | | | | |
| | | 11 | 6 | 23 | | | | | | | | |
| | | 11 | 6 | 24 | | | | | | | | |
| | | 11 | 7 | 1 | | | | | | | | |
| | | 11 | 7 | 2 | | | | | | | | |
| | | 11 | 7 | 3 | | | | | | | | |
| | | 11 | 7 | 4 | | | | | | | | |
| | | 11 | 7 | 5 | | | | | | | | |
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| | | 11 | 7 | 9 | | | | | | | | |
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| | | 11 | 7 | 20 | | | | | | | | | |
| | | 11 | 7 | 21 | | | | | | | | | |
| | | 11 | 7 | 22 | | | | | | | | | |
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| | | 11 | 8 | 1 | | | | | | | | | |
| | | 11 | 8 | 2 | | | | | | | | | |
| | | 11 | 8 | 3 | | | | | | | | | |
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Demand Inputs

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| | | 11 | 22 | 1 | | | | | | | | | |
| | | 11 | 22 | 2 | | | | | | | | | |
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| | | 11 | 23 | 4 | | | | | | | | | |
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| | | 11 | 24 | 23 | | | | | | | | | |
| | | 11 | 24 | 24 | | | | | | | | | |
| | | 11 | 25 | 1 | | | | | | | | | |
| | | 11 | 25 | 2 | | | | | | | | | |
| | | 11 | 25 | 3 | | | | | | | | | |
| | | 11 | 25 | 4 | | | | | | | | | |
| | | 11 | 25 | 5 | | | | | | | | | |
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| | | 11 | 25 | 13 | | | | | | | | | |
| | | 11 | 25 | 14 | | | | | | | | | |
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| | | 11 | 25 | 16 | | | | | | | | | |
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| | | 11 | 25 | 22 | | | | | | | | | |
| | | 11 | 25 | 23 | | | | | | | | | |
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| | | 11 | 26 | 3 | | | | | | | | | |
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| | | 11 | 28 | 14 | | | | | | | | | |
| | | 11 | 28 | 15 | | | | | | | | | |
| | | 11 | 28 | 16 | | | | | | | | | |
| | | 11 | 28 | 17 | | | | | | | | | |
| | | 11 | 28 | 18 | | | | | | | | | |
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| | | 11 | 28 | 24 | | | | | | | | | |
| | | 11 | 29 | 1 | | | | | | | | | |
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| | | 11 | 29 | 13 | | | | | | | | | |
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| | | 12 | 6 | 15 | | | | | | | | | |
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| | | 12 | 6 | 22 | | | | | | | | | |
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| | | 12 | 8 | 2 | | | | | | | | | |
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| | | 12 | 8 | 22 | | | | | | | | | |
| | | 12 | 8 | 23 | | | | | | | | | |
| | | 12 | 8 | 24 | | | | | | | | | |
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| | | 12 | 15 | 12 | | | | | | | | |
| | | 12 | 15 | 13 | | | | | | | | |
| | | 12 | 15 | 14 | | | | | | | | |
| | | 12 | 15 | 15 | | | | | | | | |
| | | 12 | 15 | 16 | | | | | | | | |
| | | 12 | 15 | 17 | | | | | | | | |
| | | 12 | 15 | 18 | | | | | | | | |
| | | 12 | 15 | 19 | | | | | | | | |
| | | 12 | 15 | 20 | | | | | | | | |
| | | 12 | 15 | 21 | | | | | | | | |
| | | 12 | 15 | 22 | | | | | | | | |
| | | 12 | 15 | 23 | | | | | | | | |
| | | 12 | 15 | 24 | | | | | | | | |
| | | 12 | 16 | 1 | | | | | | | | |
| | | 12 | 16 | 2 | | | | | | | | |
| | | 12 | 16 | 3 | | | | | | | | |
| | | 12 | 16 | 4 | | | | | | | | |
| | | 12 | 16 | 5 | | | | | | | | |
| | | 12 | 16 | 6 | | | | | | | | |
| | | 12 | 16 | 7 | | | | | | | | |
| | | 12 | 16 | 8 | | | | | | | | |
| | | 12 | 16 | 9 | | | | | | | | |
| | | 12 | 16 | 10 | | | | | | | | |
| | | 12 | 16 | 11 | | | | | | | | |
| | | 12 | 16 | 12 | | | | | | | | |
| | | 12 | 16 | 13 | | | | | | | | |
| | | 12 | 16 | 14 | | | | | | | | |
| | | 12 | 16 | 15 | | | | | | | | |
| | | 12 | 16 | 16 | | | | | | | | |
| | | 12 | 16 | 17 | | | | | | | | |
| | | 12 | 16 | 18 | | | | | | | | |
| | | 12 | 16 | 19 | | | | | | | | |
| | | 12 | 16 | 20 | | | | | | | | |
| | | 12 | 16 | 21 | | | | | | | | |
| | | 12 | 16 | 22 | | | | | | | | |
| | | 12 | 16 | 23 | | | | | | | | |
| | | 12 | 16 | 24 | | | | | | | | |
| | | 12 | 17 | 1 | | | | | | | | |
| | | 12 | 17 | 2 | | | | | | | | |
| | | 12 | 17 | 3 | | | | | | | | |
| | | 12 | 17 | 4 | | | | | | | | |
| | | 12 | 17 | 5 | | | | | | | | |
| | | 12 | 17 | 6 | | | | | | | | |
| | | 12 | 17 | 7 | | | | | | | | |
| | | 12 | 17 | 8 | | | | | | | | |
| | | 12 | 17 | 9 | | | | | | | | |
| | | 12 | 17 | 10 | | | | | | | | |
| | | 12 | 17 | 11 | | | | | | | | |
| | | 12 | 17 | 12 | | | | | | | | |
| | | 12 | 17 | 13 | | | | | | | | |
| | | 12 | 17 | 14 | | | | | | | | |
| | | 12 | 17 | 15 | | | | | | | | |
| | | 12 | 17 | 16 | | | | | | | | |
| | | 12 | 17 | 17 | | | | | | | | |
| | | 12 | 17 | 18 | | | | | | | | |
| | | 12 | 17 | 19 | | | | | | | | |
| | | 12 | 17 | 20 | | | | | | | | |
| | | 12 | 17 | 21 | | | | | | | | |
| | | 12 | 17 | 22 | | | | | | | | |
| | | 12 | 17 | 23 | | | | | | | | |
| | | 12 | 17 | 24 | | | | | | | | |
| | | 12 | 18 | 1 | | | | | | | | |
| | | 12 | 18 | 2 | | | | | | | | |
| | | 12 | 18 | 3 | | | | | | | | |
| | | 12 | 18 | 4 | | | | | | | | |
| | | 12 | 18 | 5 | | | | | | | | |
| | | 12 | 18 | 6 | | | | | | | | |
| | | 12 | 18 | 7 | | | | | | | | |
| | | 12 | 18 | 8 | | | | | | | | |
| | | 12 | 18 | 9 | | | | | | | | |
| | | 12 | 18 | 10 | | | | | | | | |
| | | 12 | 18 | 11 | | | | | | | | |
| | | 12 | 18 | 12 | | | | | | | | |
| | | 12 | 18 | 13 | | | | | | | | |
| | | 12 | 18 | 14 | | | | | | | | |
| | | 12 | 18 | 15 | | | | | | | | |
| | | 12 | 18 | 16 | | | | | | | | |
| | | 12 | 18 | 17 | | | | | | | | |
| | | 12 | 18 | 18 | | | | | | | | |
| | | 12 | 18 | 19 | | | | | | | | |
| | | 12 | 18 | 20 | | | | | | | | |
| | | 12 | 18 | 21 | | | | | | | | |
| | | 12 | 18 | 22 | | | | | | | | |
| | | 12 | 18 | 23 | | | | | | | | |
| | | 12 | 18 | 24 | | | | | | | | |
| | | 12 | 19 | 1 | | | | | | | | |
| | | 12 | 19 | 2 | | | | | | | | |
| | | 12 | 19 | 3 | | | | | | | | |
| | | 12 | 19 | 4 | | | | | | | | |
| | | 12 | 19 | 5 | | | | | | | | |
| | | 12 | 19 | 6 | | | | | | | | |
| | | 12 | 19 | 7 | | | | | | | | |
| | | 12 | 19 | 8 | | | | | | | | |
| | | 12 | 19 | 9 | | | | | | | | |
| | | 12 | 19 | 10 | | | | | | | | |
| | | 12 | 19 | 11 | | | | | | | | |
| | | 12 | 19 | 12 | | | | | | | | |
| | | 12 | 19 | 13 | | | | | | | | |
| | | 12 | 19 | 14 | | | | | | | | |
| | | 12 | 19 | 15 | | | | | | | | |
| | | 12 | 19 | 16 | | | | | | | | |
| | | 12 | 19 | 17 | | | | | | | | |
| | | 12 | 19 | 18 | | | | | | | | |
| | | 12 | 19 | 19 | | | | | | | | |
| | | 12 | 19 | 20 | | | | | | | | |
| | | 12 | 19 | 21 | | | | | | | | |
| | | 12 | 19 | 22 | | | | | | | | |

Demand Inputs

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| | | 12 | 19 | 23 | | | | | | | | | |
| | | 12 | 19 | 24 | | | | | | | | | |
| | | 12 | 20 | 1 | | | | | | | | | |
| | | 12 | 20 | 2 | | | | | | | | | |
| | | 12 | 20 | 3 | | | | | | | | | |
| | | 12 | 20 | 4 | | | | | | | | | |
| | | 12 | 20 | 5 | | | | | | | | | |
| | | 12 | 20 | 6 | | | | | | | | | |
| | | 12 | 20 | 7 | | | | | | | | | |
| | | 12 | 20 | 8 | | | | | | | | | |
| | | 12 | 20 | 9 | | | | | | | | | |
| | | 12 | 20 | 10 | | | | | | | | | |
| | | 12 | 20 | 11 | | | | | | | | | |
| | | 12 | 20 | 12 | | | | | | | | | |
| | | 12 | 20 | 13 | | | | | | | | | |
| | | 12 | 20 | 14 | | | | | | | | | |
| | | 12 | 20 | 15 | | | | | | | | | |
| | | 12 | 20 | 16 | | | | | | | | | |
| | | 12 | 20 | 17 | | | | | | | | | |
| | | 12 | 20 | 18 | | | | | | | | | |
| | | 12 | 20 | 19 | | | | | | | | | |
| | | 12 | 20 | 20 | | | | | | | | | |
| | | 12 | 20 | 21 | | | | | | | | | |
| | | 12 | 20 | 22 | | | | | | | | | |
| | | 12 | 20 | 23 | | | | | | | | | |
| | | 12 | 20 | 24 | | | | | | | | | |
| | | 12 | 21 | 1 | | | | | | | | | |
| | | 12 | 21 | 2 | | | | | | | | | |
| | | 12 | 21 | 3 | | | | | | | | | |
| | | 12 | 21 | 4 | | | | | | | | | |
| | | 12 | 21 | 5 | | | | | | | | | |
| | | 12 | 21 | 6 | | | | | | | | | |
| | | 12 | 21 | 7 | | | | | | | | | |
| | | 12 | 21 | 8 | | | | | | | | | |
| | | 12 | 21 | 9 | | | | | | | | | |
| | | 12 | 21 | 10 | | | | | | | | | |
| | | 12 | 21 | 11 | | | | | | | | | |
| | | 12 | 21 | 12 | | | | | | | | | |
| | | 12 | 21 | 13 | | | | | | | | | |
| | | 12 | 21 | 14 | | | | | | | | | |
| | | 12 | 21 | 15 | | | | | | | | | |
| | | 12 | 21 | 16 | | | | | | | | | |
| | | 12 | 21 | 17 | | | | | | | | | |
| | | 12 | 21 | 18 | | | | | | | | | |
| | | 12 | 21 | 19 | | | | | | | | | |
| | | 12 | 21 | 20 | | | | | | | | | |
| | | 12 | 21 | 21 | | | | | | | | | |
| | | 12 | 21 | 22 | | | | | | | | | |
| | | 12 | 21 | 23 | | | | | | | | | |
| | | 12 | 21 | 24 | | | | | | | | | |
| | | 12 | 22 | 1 | | | | | | | | | |
| | | 12 | 22 | 2 | | | | | | | | | |
| | | 12 | 22 | 3 | | | | | | | | | |
| | | 12 | 22 | 4 | | | | | | | | | |
| | | 12 | 22 | 5 | | | | | | | | | |
| | | 12 | 22 | 6 | | | | | | | | | |
| | | 12 | 22 | 7 | | | | | | | | | |
| | | 12 | 22 | 8 | | | | | | | | | |
| | | 12 | 22 | 9 | | | | | | | | | |
| | | 12 | 22 | 10 | | | | | | | | | |
| | | 12 | 22 | 11 | | | | | | | | | |
| | | 12 | 22 | 12 | | | | | | | | | |
| | | 12 | 22 | 13 | | | | | | | | | |
| | | 12 | 22 | 14 | | | | | | | | | |
| | | 12 | 22 | 15 | | | | | | | | | |
| | | 12 | 22 | 16 | | | | | | | | | |
| | | 12 | 22 | 17 | | | | | | | | | |
| | | 12 | 22 | 18 | | | | | | | | | |
| | | 12 | 22 | 19 | | | | | | | | | |
| | | 12 | 22 | 20 | | | | | | | | | |
| | | 12 | 22 | 21 | | | | | | | | | |
| | | 12 | 22 | 22 | | | | | | | | | |
| | | 12 | 22 | 23 | | | | | | | | | |
| | | 12 | 22 | 24 | | | | | | | | | |
| | | 12 | 23 | 1 | | | | | | | | | |
| | | 12 | 23 | 2 | | | | | | | | | |
| | | 12 | 23 | 3 | | | | | | | | | |
| | | 12 | 23 | 4 | | | | | | | | | |
| | | 12 | 23 | 5 | | | | | | | | | |
| | | 12 | 23 | 6 | | | | | | | | | |
| | | 12 | 23 | 7 | | | | | | | | | |
| | | 12 | 23 | 8 | | | | | | | | | |
| | | 12 | 23 | 9 | | | | | | | | | |
| | | 12 | 23 | 10 | | | | | | | | | |
| | | 12 | 23 | 11 | | | | | | | | | |
| | | 12 | 23 | 12 | | | | | | | | | |
| | | 12 | 23 | 13 | | | | | | | | | |
| | | 12 | 23 | 14 | | | | | | | | | |
| | | 12 | 23 | 15 | | | | | | | | | |
| | | 12 | 23 | 16 | | | | | | | | | |
| | | 12 | 23 | 17 | | | | | | | | | |
| | | 12 | 23 | 18 | | | | | | | | | |
| | | 12 | 23 | 19 | | | | | | | | | |
| | | 12 | 23 | 20 | | | | | | | | | |
| | | 12 | 23 | 21 | | | | | | | | | |
| | | 12 | 23 | 22 | | | | | | | | | |
| | | 12 | 23 | 23 | | | | | | | | | |
| | | 12 | 23 | 24 | | | | | | | | | |
| | | 12 | 24 | 1 | | | | | | | | | |
| | | 12 | 24 | 2 | | | | | | | | | |
| | | 12 | 24 | 3 | | | | | | | | | |
| | | 12 | 24 | 4 | | | | | | | | | |
| | | 12 | 24 | 5 | | | | | | | | | |
| | | 12 | 24 | 6 | | | | | | | | | |
| | | 12 | 24 | 7 | | | | | | | | | |
| | | 12 | 24 | 8 | | | | | | | | | |
| | | 12 | 24 | 9 | | | | | | | | | |
| | | 12 | 24 | 10 | | | | | | | | | |
| | | 12 | 24 | 11 | | | | | | | | | |
| | | 12 | 24 | 12 | | | | | | | | | |
| | | 12 | 24 | 13 | | | | | | | | | |
| | | 12 | 24 | 14 | | | | | | | | | |
| | | 12 | 24 | 15 | | | | | | | | | |
| | | 12 | 24 | 16 | | | | | | | | | |
| | | 12 | 24 | 17 | | | | | | | | | |
| | | 12 | 24 | 18 | | | | | | | | | |
| | | 12 | 24 | 19 | | | | | | | | | |
| | | 12 | 24 | 20 | | | | | | | | | |
| | | 12 | 24 | 21 | | | | | | | | | |
| | | 12 | 24 | 22 | | | | | | | | | |
| | | 12 | 24 | 23 | | | | | | | | | |
| | | 12 | 24 | 24 | | | | | | | | | |
| | | 12 | 25 | 1 | | | | | | | | | |
| | | 12 | 25 | 2 | | | | | | | | | |
| | | 12 | 25 | 3 | | | | | | | | | |
| | | 12 | 25 | 4 | | | | | | | | | |
| | | 12 | 25 | 5 | | | | | | | | | |
| | | 12 | 25 | 6 | | | | | | | | | |
| | | 12 | 25 | 7 | | | | | | | | | |
| | | 12 | 25 | 8 | | | | | | | | | |
| | | 12 | 25 | 9 | | | | | | | | | |
| | | 12 | 25 | 10 | | | | | | | | | |
| | | 12 | 25 | 11 | | | | | | | | | |
| | | 12 | 25 | 12 | | | | | | | | | |
| | | 12 | 25 | 13 | | | | | | | | | |
| | | 12 | 25 | 14 | | | | | | | | | |
| | | 12 | 25 | 15 | | | | | | | | | |
| | | 12 | 25 | 16 | | | | | | | | | |
| | | 12 | 25 | 17 | | | | | | | | | |
| | | 12 | 25 | 18 | | | | | | | | | |
| | | 12 | 25 | 19 | | | | | | | | | |
| | | 12 | 25 | 20 | | | | | | | | | |
| | | 12 | 25 | 21 | | | | | | | | | |
| | | 12 | 25 | 22 | | | | | | | | | |
| | | 12 | 25 | 23 | | | | | | | | | |
| | | 12 | 25 | 24 | | | | | | | | | |
| | | 12 | 26 | 1 | | | | | | | | | |
| | | 12 | 26 | 2 | | | | | | | | | |
| | | 12 | 26 | 3 | | | | | | | | | |
| | | 12 | 26 | 4 | | | | | | | | | |
| | | 12 | 26 | 5 | | | | | | | | | |
| | | 12 | 26 | 6 | | | | | | | | | |
| | | 12 | 26 | 7 | | | | | | | | | |
| | | 12 | 26 | 8 | | | | | | | | | |
| | | 12 | 26 | 9 | | | | | | | | | |
| | | 12 | 26 | 10 | | | | | | | | | |
| | | 12 | 26 | 11 | | | | | | | | | |
| | | 12 | 26 | 12 | | | | | | | | | |
| | | 12 | 26 | 13 | | | | | | | | | |
| | | 12 | 26 | 14 | | | | | | | | | |
| | | 12 | 26 | 15 | | | | | | | | | |
| | | 12 | 26 | 16 | | | | | | | | | |
| | | 12 | 26 | 17 | | | | | | | | | |
| | | 12 | 26 | 18 | | | | | | | | | |
| | | 12 | 26 | 19 | | | | | | | | | |
| | | 12 | 26 | 20 | | | | | | | | | |
| | | 12 | 26 | 21 | | | | | | | | | |
| | | 12 | 26 | 22 | | | | | | | | | |
| | | 12 | 26 | 23 | | | | | | | | | |
| | | 12 | 26 | 24 | | | | | | | | | |
| | | 12 | 27 | 1 | | | | | | | | | |
| | | 12 | 27 | 2 | | | | | | | | | |
| | | 12 | 27 | 3 | | | | | | | | | |
| | | 12 | 27 | 4 | | | | | | | | | |
| | | 12 | 27 | 5 | | | | | | | | | |
| | | 12 | 27 | 6 | | | | | | | | | |
| | | 12 | 27 | 7 | | | | | | | | | |
| | | 12 | 27 | 8 | | | | | | | | | |
| | | 12 | 27 | 9 | | | | | | | | | |
| | | 12 | 27 | 10 | | | | | | | | | |
| | | 12 | 27 | 11 | | | | | | | | | |
| | | 12 | 27 | 12 | | | | | | | | | |
| | | 12 | 27 | 13 | | | | | | | | | |
| | | 12 | 27 | 14 | | | | | | | | | |
| | | 12 | 27 | 15 | | | | | | | | | |
| | | 12 | 27 | 16 | | | | | | | | | |
| | | 12 | 27 | 17 | | | | | | | | | |
| | | 12 | 27 | 18 | | | | | | | | | |
| | | 12 | 27 | 19 | | | | | | | | | |
| | | 12 | 27 | 20 | | | | | | | | | |
| | | 12 | 27 | 21 | | | | | | | | | |
| | | 12 | 27 | 22 | | | | | | | | | |
| | | 12 | 27 | 23 | | | | | | | | | |
| | | 12 | 27 | 24 | | | | | | | | | |
| | | 12 | 28 | 1 | | | | | | | | | |
| | | 12 | 28 | 2 | | | | | | | | | |
| | | 12 | 28 | 3 | | | | | | | | | |
| | | 12 | 28 | 4 | | | | | | | | | |
| | | 12 | 28 | 5 | | | | | | | | | |
| | | 12 | 28 | 6 | | | | | | | | | |
| | | 12 | 28 | 7 | | | | | | | | | |
| | | 12 | 28 | 8 | | | | | | | | | |
| | | 12 | 28 | 9 | | | | | | | | | |

Demand Inputs

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|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12 | 28 | 10 | | | | | | | | |
| | 12 | 28 | 11 | | | | | | | | |
| | 12 | 28 | 12 | | | | | | | | |
| | 12 | 28 | 13 | | | | | | | | |
| | 12 | 28 | 14 | | | | | | | | |
| | 12 | 28 | 15 | | | | | | | | |
| | 12 | 28 | 16 | | | | | | | | |
| | 12 | 28 | 17 | | | | | | | | |
| | 12 | 28 | 18 | | | | | | | | |
| | 12 | 28 | 19 | | | | | | | | |
| | 12 | 28 | 20 | | | | | | | | |
| | 12 | 28 | 21 | | | | | | | | |
| | 12 | 28 | 22 | | | | | | | | |
| | 12 | 28 | 23 | | | | | | | | |
| | 12 | 28 | 24 | | | | | | | | |
| | 12 | 29 | 1 | | | | | | | | |
| | 12 | 29 | 2 | | | | | | | | |
| | 12 | 29 | 3 | | | | | | | | |
| | 12 | 29 | 4 | | | | | | | | |
| | 12 | 29 | 5 | | | | | | | | |
| | 12 | 29 | 6 | | | | | | | | |
| | 12 | 29 | 7 | | | | | | | | |
| | 12 | 29 | 8 | | | | | | | | |
| | 12 | 29 | 9 | | | | | | | | |
| | 12 | 29 | 10 | | | | | | | | |
| | 12 | 29 | 11 | | | | | | | | |
| | 12 | 29 | 12 | | | | | | | | |
| | 12 | 29 | 13 | | | | | | | | |
| | 12 | 29 | 14 | | | | | | | | |
| | 12 | 29 | 15 | | | | | | | | |
| | 12 | 29 | 16 | | | | | | | | |
| | 12 | 29 | 17 | | | | | | | | |
| | 12 | 29 | 18 | | | | | | | | |
| | 12 | 29 | 19 | | | | | | | | |
| | 12 | 29 | 20 | | | | | | | | |
| | 12 | 29 | 21 | | | | | | | | |
| | 12 | 29 | 22 | | | | | | | | |
| | 12 | 29 | 23 | | | | | | | | |
| | 12 | 29 | 24 | | | | | | | | |
| | 12 | 30 | 1 | | | | | | | | |
| | 12 | 30 | 2 | | | | | | | | |
| | 12 | 30 | 3 | | | | | | | | |
| | 12 | 30 | 4 | | | | | | | | |
| | 12 | 30 | 5 | | | | | | | | |
| | 12 | 30 | 6 | | | | | | | | |
| | 12 | 30 | 7 | | | | | | | | |
| | 12 | 30 | 8 | | | | | | | | |
| | 12 | 30 | 9 | | | | | | | | |
| | 12 | 30 | 10 | | | | | | | | |
| | 12 | 30 | 11 | | | | | | | | |
| | 12 | 30 | 12 | | | | | | | | |
| | 12 | 30 | 13 | | | | | | | | |
| | 12 | 30 | 14 | | | | | | | | |
| | 12 | 30 | 15 | | | | | | | | |
| | 12 | 30 | 16 | | | | | | | | |
| | 12 | 30 | 17 | | | | | | | | |
| | 12 | 30 | 18 | | | | | | | | |
| | 12 | 30 | 19 | | | | | | | | |
| | 12 | 30 | 20 | | | | | | | | |
| | 12 | 30 | 21 | | | | | | | | |
| | 12 | 30 | 22 | | | | | | | | |
| | 12 | 30 | 23 | | | | | | | | |
| | 12 | 30 | 24 | | | | | | | | |
| | 12 | 31 | 1 | | | | | | | | |
| | 12 | 31 | 2 | | | | | | | | |
| | 12 | 31 | 3 | | | | | | | | |
| | 12 | 31 | 4 | | | | | | | | |
| | 12 | 31 | 5 | | | | | | | | |
| | 12 | 31 | 6 | | | | | | | | |
| | 12 | 31 | 7 | | | | | | | | |
| | 12 | 31 | 8 | | | | | | | | |
| | 12 | 31 | 9 | | | | | | | | |
| | 12 | 31 | 10 | | | | | | | | |
| | 12 | 31 | 11 | | | | | | | | |
| | 12 | 31 | 12 | | | | | | | | |
| | 12 | 31 | 13 | | | | | | | | |
| | 12 | 31 | 14 | | | | | | | | |
| | 12 | 31 | 15 | | | | | | | | |
| | 12 | 31 | 16 | | | | | | | | |
| | 12 | 31 | 17 | | | | | | | | |
| | 12 | 31 | 18 | | | | | | | | |
| | 12 | 31 | 19 | | | | | | | | |
| | 12 | 31 | 20 | | | | | | | | |
| | 12 | 31 | 21 | | | | | | | | |
| | 12 | 31 | 22 | | | | | | | | |
| | 12 | 31 | 23 | | | | | | | | |
| | 12 | 31 | 24 | | | | | | | | |

ESP GHG Benchmarks

*30 MMT in 2035*

| LSEs within Utility Territory | 2030 GHG Emissions Benchmark (MMT) | 2035 GHG Emissions Benchmark (MMT) | 2030 DA Load (GWh) | 2035 DA Load (GWh) | ESP 2030 load within each IOU territory (GWh) | ESP 2035 load within each IOU territory (GWh) | ESP 2030 benchmark for each IOU territory (MMT) | ESP 2035 benchmark for each IOU territory (MMT) |
|---|---|---|---|---|---|---|---|---|
| Pacific Gas and Electric Company (Direct Access) | 1.6214 | 1.1776 | 11,393 | 11,393 | | | 0.000 | 0.000 |
| Southern California Edison Company (Direct Access) | 1.6376 | 1.2201 | 13,421 | 13,421 | | | 0.000 | 0.000 |
| San Diego Gas and Electric Company (Direct Access) | 0.6637 | 0.4982 | 3,940 | 3,940 | | | 0.000 | 0.000 |
| **TOTAL** | | | **28,754** | **28,754** | **0** | **0** | **0.000** | **0.000** |

*Each ESP is required to calculate its own confidential GHG Emissions Benchmark based on its 2030 and 2035 load share within the host IOU's territory. For any ESP that serves load in more than one IOU service territory, that ESP should add up the separate GHG Emissions Benchmarks calculated based on its share of direct access load for each IOU service territory to result in a single benchmark. When filling out Columns F and G -- "ESP 2030 load within each IOU territory" and "ESP 2035 load within each IOU territory" -- each ESP should utilize the confidential load forecast communicated to it by Energy Division staff.*

| | | | | | | |
|---|---|---|---|---|---|---|
| | *30 MMT in 2035* | | | | | |
| | ***Emissions Summary*** | | | | | |
| | | | | | | |
| | **Emissions Total** | ***Unit*** | **2024** | **2026** | **2030** | **2035** |
| | $CO_2$ | *MMt/yr* | 0.277 | 0.380 | 0.500 | 0.514 |
| | PM2.5 | *tonnes/yr* | 39 | 35 | 34 | 31 |
| | $SO_2$ | *tonnes/yr* | 18 | 15 | 12 | 7 |
| | NOx | *tonnes/yr* | 137 | 116 | 97 | 68 |
| | | | | | | |
| | ***Emissions by resource type*** | | | | | |
| | | | | | | |
| | **$CO_2$** | ***Unit*** | **2024** | **2026** | **2030** | **2035** |
| | Coal | *MMt/yr* | - | - | - | - |
| | CHP | *MMt/yr* | 0.14 | 0.14 | 0.14 | 0.08 |
| | Biogas | *MMt/yr* | - | - | - | - |
| | Biomass | *MMt/yr* | - | - | - | - |
| | System Power | *MMt/yr* | 0.13 | 0.24 | 0.36 | 0.43 |
| | Asset Controlling Supplier | *MMt/yr* | - | - | - | - |
| | **Total** | ***MMt/yr*** | **0.28** | **0.38** | **0.50** | **0.51** |
| | Average emissions intensity | *tCO2/MWh* | 0.048 | 0.066 | 0.084 | 0.084 |
| | Oversupply Emissions Credits | *MMt/yr* | 0.25 | 0.24 | 0.07 | 0.04 |
| | | | | | | |
| | **PM2.5** | ***Unit*** | **2024** | **2026** | **2030** | **2035** |
| | Coal | *tonnes/yr* | - | - | - | - |
| | CHP | *tonnes/yr* | 8 | 8 | 8 | 5 |
| | Biogas | *tonnes/yr* | 13 | 13 | 13 | 5 |
| | Biomass | *tonnes/yr* | 19 | 11 | 1 | 4 |
| | System Power | *tonnes/yr* | (1) | 3 | 12 | 18 |
| | **Total** | ***tonnes/yr*** | **39** | **35** | **34** | **31** |
| | Average emissions intensity | *kg/MWh* | 0.0068 | 0.0061 | 0.0057 | 0.0052 |
| | | | | | | |
| | **$SO_2$** | ***Unit*** | **2024** | **2026** | **2030** | **2035** |
| | Coal | *tonnes/yr* | - | - | - | - |
| | CHP | *tonnes/yr* | 1 | 1 | 1 | 0 |
| | Biogas | *tonnes/yr* | 10 | 10 | 10 | 4 |
| | Biomass | *tonnes/yr* | 7 | 4 | 0 | 2 |
| | System Power | *tonnes/yr* | (0) | 0 | 1 | 2 |
| | **Total** | ***tonnes/yr*** | **18** | **15** | **12** | **7** |
| | Average emissions intensity | *kg/MWh* | 0.0031 | 0.0026 | 0.0021 | 0.0012 |
| | | | | | | |
| | **NOx** | ***Unit*** | **2024** | **2026** | **2030** | **2035** |
| | Coal | *tonnes/yr* | - | - | - | - |
| | CHP | *tonnes/yr* | 37 | 36 | 35 | 18 |
| | Biogas | *tonnes/yr* | 44 | 44 | 44 | 17 |
| | Biomass | *tonnes/yr* | 58 | 32 | 3 | 13 |
| | System Power | *tonnes/yr* | (1) | 4 | 14 | 20 |
| | **Total** | ***tonnes/yr*** | **137** | **116** | **97** | **68** |
| | Average emissions intensity | *kg/MWh* | 0.0239 | 0.0202 | 0.0162 | 0.0111 |
| | | | | | | |
| | ***Supply and Demand Balance*** | | | | | |
| | | | | | | |
| | **Demand Summary** | ***Unit*** | **2024** | **2026** | **2030** | **2035** |
| | Managed Retail Sales Forecast (assigned to LSE) | *GWh* | 5,759 | 5,759 | 5,955 | 6,099 |
| | Baseline Demand, non-C&I | *GWh* | 3,607 | 3,634 | 3,805 | 3,861 |
| | Baseline Demand, C&I | *GWh* | 3,405 | 3,455 | 3,692 | 3,904 |
| | Electric Vehicle Load | *GWh* | 244 | 346 | 550 | 841 |
| | Building Electrification | *GWh* | 28 | 50 | 101 | 168 |
| | Energy Efficiency | *GWh* | (96) | (164) | (295) | (431) |
| | BTM PV | *GWh* | (973) | (1,104) | (1,428) | (1,764) |

| | | | | | | |
|---|---|---|---|---|---|---|
| | Demand (at generator bus-bar) | *GWh* | 6,217 | 6,218 | 6,431 | 6,587 |
| | | | | | | |
| | **Supply Summary** | ***Unit*** | **2024** | **2026** | **2030** | **2035** |
| | Large Hydro | *GWh* | 845 | 525 | 525 | 525 |
| | Imported Hydro | *GWh* | 1,150 | 766 | 69 | 120 |
| | Asset Controlling Supplier | *GWh* | - | - | - | - |
| | Nuclear | *GWh* | - | - | - | - |
| | Biogas | *GWh* | 80 | 80 | 80 | 30 |
| | Biomass | *GWh* | 65 | 38 | 4 | 16 |
| | Geothermal | *GWh* | 332 | 454 | 1,753 | 1,785 |
| | Small Hydro | *GWh* | 291 | 106 | 37 | 69 |
| | Wind CAISO | *GWh* | 897 | 1,336 | 991 | 1,014 |
| | Wind Out Of State | *GWh* | - | - | 250 | 250 |
| | Wind Offshore | *GWh* | - | - | - | 400 |
| | Solar Utility Scale | *GWh* | 1,815 | 1,649 | 1,451 | 1,137 |
| | Solar Distributed | *GWh* | 32 | 32 | 32 | 31 |
| | Hybrid or Paired Solar and Battery | *GWh* | 328 | 626 | 614 | 596 |
| | Shed DR | *GWh* | 0.0 | 0.0 | 0.0 | - |
| | Pumped Storage | *GWh* | - | - | - | - |
| | Battery Storage | *GWh* | (36) | (48) | (121) | (122) |
| | Storage Resource Custom Profile | *GWh* | - | - | - | - |
| | RPS Resource Custom Profile | *GWh* | - | - | - | - |
| | GHG-free non-RPS Resource Custom Profile | *GWh* | - | - | - | - |
| | Coal | *GWh* | - | - | - | - |
| | IFM CHP | *GWh* | 323 | 315 | 312 | 182 |
| | | | | | | |
| | **Supply Demand Balance Summary** | ***Unit*** | **2024** | **2026** | **2030** | **2035** |
| | *LSE Supply, before curtailment and exports* | *GWh* | *6,122* | *5,879* | *5,997* | *6,033* |
| | *Net Purchases, before curtailment and exports* | *GWh* | *95* | *339* | *434* | *554* |
| | Curtailment | *GWh* | (181) | (182) | (307) | (327) |
| | Exports | *GWh* | (54) | (51) | (126) | (163) |
| | Zero Emissions Power From System | *GWh* | - | - | 0 | 3 |
| | **Net System Power (incurs emissions)** | ***GWh*** | **330** | **572** | **866** | **1,041** |
| | Check: Supply equals demand | | TRUE | TRUE | TRUE | TRUE |
| | | | | | | |
| | **Renewable and GHG-Free %** | ***Unit*** | **2024** | **2026** | **2030** | **2035** |
| | Retail Sales | GWh | 5,759 | 5,759 | 5,955 | 6,099 |
| | RPS-Eligible Delivered Renewable | GWh | 3,659 | 4,139 | 4,905 | 5,001 |
| | GHG free | GWh | 5,654 | 5,430 | 5,499 | 5,649 |
| | RPS-Eligible Delivered Renewable Percentage | *% of retail sales* | 64% | 72% | 82% | 82% |
| | GHG-free Percentage | *% of retail sales* | 98% | 94% | 92% | 93% |
| | | | | | | |

***Notes***
*Includes both in-CAISO and import emissions*
*Only In-CAISO emissions*
*Only In-CAISO emissions*
*Only In-CAISO emissions*

***Notes***
*Included in GHG emissions total*

*Includes emissions from in-CAISO dispatchable gas and unspecified imports*

*Includes both in-CAISO and import emissions*
*Emissions per MWh of sales*
*When hourly supply exceeds hourly load and system power is on the margin, LSE recieves credit at the system power emissions rate. Impact included in Total.*

***Notes***
*Information only, not included in total*

*In-CAISO emissions only - unspecified import emissions excluded*
*Only In-CAISO emissions*
*Emissions per MWh of sales*

***Notes***
*Information only, not included in total*

*In-CAISO emissions only - unspecified import emissions excluded*
*Only In-CAISO emissions*
*Emissions per MWh of sales*

***Notes***
*Information only, not included in total*

*In-CAISO emissions only - unspecified import emissions excluded*
*Only In-CAISO emissions*
*Emissions per MWh of sales*

*Sales forecast (before T&D losses increase demand at generator bus-bar)*

*Summary of active inputs from Demand Inputs tab*

***Notes***

*Wind and solar values represent production potential (pre-curtailment).*
*Curtailment is calculated at the portfolio level (as opposed to the resource level), and is included as a line item below*

*Distributed solar generation that is in front of the meter*

*Negative because storage losses represent net negative energy production*
*Negative because storage losses represent net negative energy production*
*Negative because storage losses represent net negative energy production*

***Notes***

*Represents LSE's net power production, before curtailment and exports reduce the power available to dispace CAISO dispatchable gas/unspecified imports*
*The net system power that the LSE would consume (positive = consume from system, negative = supply to system) if dispatchable gas/unspecified imports were on the margin at the system level in all hours. For information only - not directly used to calculate LSE emissions.*
*Power that, if supplied to the system, would not displace CAISO dispatchable gas and/or unspecified import emissions and would instead be curtailed*
*Power that, if supplied to the system, would not displace CAISO dispatchable gas and/or unspecified import emissions and would instead be exported*
*Power supplied to meet LSE demand that does not incur emissions. Oversupply conditions at the system level result in surplus zero emissions power in some hours.*
*Power supplied by the system (or sent back to the system from if negative) in hours when CAISO dispatchable gas and/or unspecified imports are on the margin. The net system power produced or consumed is multiplied by the system power emissions rate in each hour.*

***Notes***

Represents delivered renewable energy. Not directly comparable to production from an LSE's RPS-eligible resources.
A small fraction of Asset Controlling Supplier imports are not counted as GHG-free
Represents delivered renewable energy. Not directly comparable to production from an LSE's RPS-eligible resources.

| Individual LSE Energy Load Forecast Assignments for Use in 2022 LSE IRPs | | | | | |
|---|---|---|---|---|---|
| *Assigned per June 15, 2022 ALJ Ruling - https://docs.cpuc.ca.gov/SearchRes.aspx?docformat=ALL&docid=485625915* | | | | | |
| | | | | | |
| Service Area | LSE CPUC ID | LSE Name | YEAR | TYPE | Final IRP Sales Forecast (GWH) |
| PGE | | Pacific Gas and Electric (Direct Access) | 2023 | ESP | 11,393.00 |
| PGE | | Pacific Gas and Electric (Direct Access) | 2024 | ESP | 11,393.00 |
| PGE | | Pacific Gas and Electric (Direct Access) | 2025 | ESP | 11,393.00 |
| PGE | | Pacific Gas and Electric (Direct Access) | 2026 | ESP | 11,393.00 |
| PGE | | Pacific Gas and Electric (Direct Access) | 2027 | ESP | 11,393.00 |
| PGE | | Pacific Gas and Electric (Direct Access) | 2028 | ESP | 11,393.00 |
| PGE | | Pacific Gas and Electric (Direct Access) | 2029 | ESP | 11,393.00 |
| PGE | | Pacific Gas and Electric (Direct Access) | 2030 | ESP | 11,393.00 |
| PGE | | Pacific Gas and Electric (Direct Access) | 2031 | ESP | 11,393.00 |
| PGE | | Pacific Gas and Electric (Direct Access) | 2032 | ESP | 11,393.00 |
| PGE | | Pacific Gas and Electric (Direct Access) | 2033 | ESP | 11,393.00 |
| PGE | | Pacific Gas and Electric (Direct Access) | 2034 | ESP | 11,393.00 |
| PGE | | Pacific Gas and Electric (Direct Access) | 2035 | ESP | 11,393.00 |
| SCE | | Southern California Edison (Direct Access) | 2023 | ESP | 13,420.85 |
| SCE | | Southern California Edison (Direct Access) | 2024 | ESP | 13,420.85 |
| SCE | | Southern California Edison (Direct Access) | 2025 | ESP | 13,420.85 |
| SCE | | Southern California Edison (Direct Access) | 2026 | ESP | 13,420.85 |
| SCE | | Southern California Edison (Direct Access) | 2027 | ESP | 13,420.85 |
| SCE | | Southern California Edison (Direct Access) | 2028 | ESP | 13,420.85 |
| SCE | | Southern California Edison (Direct Access) | 2029 | ESP | 13,420.85 |
| SCE | | Southern California Edison (Direct Access) | 2030 | ESP | 13,420.85 |
| SCE | | Southern California Edison (Direct Access) | 2031 | ESP | 13,420.85 |
| SCE | | Southern California Edison (Direct Access) | 2032 | ESP | 13,420.85 |
| SCE | | Southern California Edison (Direct Access) | 2033 | ESP | 13,420.85 |
| SCE | | Southern California Edison (Direct Access) | 2034 | ESP | 13,420.85 |
| SCE | | Southern California Edison (Direct Access) | 2035 | ESP | 13,420.85 |
| SDGE | | San Diego Gas and Electric (Direct Access) | 2023 | ESP | 3,940.00 |
| SDGE | | San Diego Gas and Electric (Direct Access) | 2024 | ESP | 3,940.00 |
| SDGE | | San Diego Gas and Electric (Direct Access) | 2025 | ESP | 3,940.00 |
| SDGE | | San Diego Gas and Electric (Direct Access) | 2026 | ESP | 3,940.00 |
| SDGE | | San Diego Gas and Electric (Direct Access) | 2027 | ESP | 3,940.00 |
| SDGE | | San Diego Gas and Electric (Direct Access) | 2028 | ESP | 3,940.00 |
| SDGE | | San Diego Gas and Electric (Direct Access) | 2029 | ESP | 3,940.00 |
| SDGE | | San Diego Gas and Electric (Direct Access) | 2030 | ESP | 3,940.00 |
| SDGE | | San Diego Gas and Electric (Direct Access) | 2031 | ESP | 3,940.00 |
| SDGE | | San Diego Gas and Electric (Direct Access) | 2032 | ESP | 3,940.00 |
| SDGE | | San Diego Gas and Electric (Direct Access) | 2033 | ESP | 3,940.00 |
| SDGE | | San Diego Gas and Electric (Direct Access) | 2034 | ESP | 3,940.00 |
| SDGE | | San Diego Gas and Electric (Direct Access) | 2035 | ESP | 3,940.00 |
| PGE | PGE | Pacific Gas and Electric (Bundled) | 2023 | IOU | 26,903.26 |
| PGE | PGE | Pacific Gas and Electric (Bundled) | 2024 | IOU | 27,098.07 |
| PGE | PGE | Pacific Gas and Electric (Bundled) | 2025 | IOU | 27,256.63 |
| PGE | PGE | Pacific Gas and Electric (Bundled) | 2026 | IOU | 27,398.95 |
| PGE | PGE | Pacific Gas and Electric (Bundled) | 2027 | IOU | 27,549.43 |
| PGE | PGE | Pacific Gas and Electric (Bundled) | 2028 | IOU | 27,650.24 |
| PGE | PGE | Pacific Gas and Electric (Bundled) | 2029 | IOU | 27,879.43 |
| PGE | PGE | Pacific Gas and Electric (Bundled) | 2030 | IOU | 28,019.56 |
| PGE | PGE | Pacific Gas and Electric (Bundled) | 2031 | IOU | 28,355.70 |
| PGE | PGE | Pacific Gas and Electric (Bundled) | 2032 | IOU | 28,612.64 |
| PGE | PGE | Pacific Gas and Electric (Bundled) | 2033 | IOU | 29,044.21 |
| PGE | PGE | Pacific Gas and Electric (Bundled) | 2034 | IOU | 29,434.18 |
| PGE | PGE | Pacific Gas and Electric (Bundled) | 2035 | IOU | 29,851.64 |
| SCE | SCE | Southern California Edison (Bundled) | 2023 | IOU | 51,695.20 |
| SCE | SCE | Southern California Edison (Bundled) | 2024 | IOU | 51,866.12 |
| SCE | SCE | Southern California Edison (Bundled) | 2025 | IOU | 52,196.12 |
| SCE | SCE | Southern California Edison (Bundled) | 2026 | IOU | 52,501.95 |
| SCE | SCE | Southern California Edison (Bundled) | 2027 | IOU | 52,943.78 |
| SCE | SCE | Southern California Edison (Bundled) | 2028 | IOU | 53,251.42 |

| | | | | | |
|---|---|---|---|---|---|
| SCE | SCE | Southern California Edison (Bundled) | 2029 | IOU | 53,601.83 |
| SCE | SCE | Southern California Edison (Bundled) | 2030 | IOU | 53,909.21 |
| SCE | SCE | Southern California Edison (Bundled) | 2031 | IOU | 54,293.31 |
| SCE | SCE | Southern California Edison (Bundled) | 2032 | IOU | 54,525.33 |
| SCE | SCE | Southern California Edison (Bundled) | 2033 | IOU | 54,791.53 |
| SCE | SCE | Southern California Edison (Bundled) | 2034 | IOU | 55,033.06 |
| SCE | SCE | Southern California Edison (Bundled) | 2035 | IOU | 55,275.88 |
| SDGE | SDGE | San Diego Gas and Electric (Bundled) | 2023 | IOU | 4,421.70 |
| SDGE | SDGE | San Diego Gas and Electric (Bundled) | 2024 | IOU | 3,637.80 |
| SDGE | SDGE | San Diego Gas and Electric (Bundled) | 2025 | IOU | 3,638.92 |
| SDGE | SDGE | San Diego Gas and Electric (Bundled) | 2026 | IOU | 3,645.46 |
| SDGE | SDGE | San Diego Gas and Electric (Bundled) | 2027 | IOU | 3,656.22 |
| SDGE | SDGE | San Diego Gas and Electric (Bundled) | 2028 | IOU | 3,663.55 |
| SDGE | SDGE | San Diego Gas and Electric (Bundled) | 2029 | IOU | 3,677.82 |
| SDGE | SDGE | San Diego Gas and Electric (Bundled) | 2030 | IOU | 3,694.02 |
| SDGE | SDGE | San Diego Gas and Electric (Bundled) | 2031 | IOU | 3,716.29 |
| SDGE | SDGE | San Diego Gas and Electric (Bundled) | 2032 | IOU | 3,734.01 |
| SDGE | SDGE | San Diego Gas and Electric (Bundled) | 2033 | IOU | 3,755.70 |
| SDGE | SDGE | San Diego Gas and Electric (Bundled) | 2034 | IOU | 3,772.75 |
| SDGE | SDGE | San Diego Gas and Electric (Bundled) | 2035 | IOU | 3,787.41 |
| PGE | 3CE | Central Coast Community Energy | 2023 | CCA | 4,557.05 |
| PGE | 3CE | Central Coast Community Energy | 2024 | CCA | 4,594.72 |
| PGE | 3CE | Central Coast Community Energy | 2025 | CCA | 4,617.45 |
| PGE | 3CE | Central Coast Community Energy | 2026 | CCA | 4,640.88 |
| PGE | 3CE | Central Coast Community Energy | 2027 | CCA | 4,672.05 |
| PGE | 3CE | Central Coast Community Energy | 2028 | CCA | 4,697.30 |
| PGE | 3CE | Central Coast Community Energy | 2029 | CCA | 4,729.19 |
| PGE | 3CE | Central Coast Community Energy | 2030 | CCA | 4,760.56 |
| PGE | 3CE | Central Coast Community Energy | 2031 | CCA | 4,799.79 |
| PGE | 3CE | Central Coast Community Energy | 2032 | CCA | 4,829.14 |
| PGE | 3CE | Central Coast Community Energy | 2033 | CCA | 4,864.25 |
| PGE | 3CE | Central Coast Community Energy | 2034 | CCA | 4,898.33 |
| PGE | 3CE | Central Coast Community Energy | 2035 | CCA | 4,935.53 |
| PGE | CPSF | CleanPowerSF | 2023 | CCA | 2,943.85 |
| PGE | CPSF | CleanPowerSF | 2024 | CCA | 2,969.61 |
| PGE | CPSF | CleanPowerSF | 2025 | CCA | 2,992.90 |
| PGE | CPSF | CleanPowerSF | 2026 | CCA | 3,015.45 |
| PGE | CPSF | CleanPowerSF | 2027 | CCA | 3,039.05 |
| PGE | CPSF | CleanPowerSF | 2028 | CCA | 3,061.60 |
| PGE | CPSF | CleanPowerSF | 2029 | CCA | 3,089.80 |
| PGE | CPSF | CleanPowerSF | 2030 | CCA | 3,119.16 |
| PGE | CPSF | CleanPowerSF | 2031 | CCA | 3,152.83 |
| PGE | CPSF | CleanPowerSF | 2032 | CCA | 3,181.17 |
| PGE | CPSF | CleanPowerSF | 2033 | CCA | 3,215.15 |
| PGE | CPSF | CleanPowerSF | 2034 | CCA | 3,247.21 |
| PGE | CPSF | CleanPowerSF | 2035 | CCA | 3,292.89 |
| PGE | EBCE | East Bay Community Energy | 2023 | CCA | 6,651.95 |
| PGE | EBCE | East Bay Community Energy | 2024 | CCA | 6,739.80 |
| PGE | EBCE | East Bay Community Energy | 2025 | CCA | 6,815.88 |
| PGE | EBCE | East Bay Community Energy | 2026 | CCA | 6,887.17 |
| PGE | EBCE | East Bay Community Energy | 2027 | CCA | 6,954.65 |
| PGE | EBCE | East Bay Community Energy | 2028 | CCA | 7,026.50 |
| PGE | EBCE | East Bay Community Energy | 2029 | CCA | 7,100.58 |
| PGE | EBCE | East Bay Community Energy | 2030 | CCA | 7,179.74 |
| PGE | EBCE | East Bay Community Energy | 2031 | CCA | 7,259.20 |
| PGE | EBCE | East Bay Community Energy | 2032 | CCA | 7,326.11 |
| PGE | EBCE | East Bay Community Energy | 2033 | CCA | 7,393.58 |
| PGE | EBCE | East Bay Community Energy | 2034 | CCA | 7,461.20 |
| PGE | EBCE | East Bay Community Energy | 2035 | CCA | 7,539.97 |
| PGE | KCCP | King City Community Power | 2023 | CCA | 33.86 |
| PGE | KCCP | King City Community Power | 2024 | CCA | 34.12 |
| PGE | KCCP | King City Community Power | 2025 | CCA | 34.33 |

| | | | | | |
|---|---|---|---|---|---|
| PGE | KCCP | King City Community Power | 2026 | CCA | 34.55 |
| PGE | KCCP | King City Community Power | 2027 | CCA | 34.80 |
| PGE | KCCP | King City Community Power | 2028 | CCA | 35.05 |
| PGE | KCCP | King City Community Power | 2029 | CCA | 35.39 |
| PGE | KCCP | King City Community Power | 2030 | CCA | 35.73 |
| PGE | KCCP | King City Community Power | 2031 | CCA | 36.17 |
| PGE | KCCP | King City Community Power | 2032 | CCA | 36.54 |
| PGE | KCCP | King City Community Power | 2033 | CCA | 37.00 |
| PGE | KCCP | King City Community Power | 2034 | CCA | 37.46 |
| PGE | KCCP | King City Community Power | 2035 | CCA | 37.95 |
| PGE | MCE | Marin Clean Energy | 2023 | CCA | 5,728.63 |
| PGE | MCE | Marin Clean Energy | 2024 | CCA | 5,758.94 |
| PGE | MCE | Marin Clean Energy | 2025 | CCA | 5,755.61 |
| PGE | MCE | Marin Clean Energy | 2026 | CCA | 5,759.26 |
| PGE | MCE | Marin Clean Energy | 2027 | CCA | 5,766.74 |
| PGE | MCE | Marin Clean Energy | 2028 | CCA | 5,795.21 |
| PGE | MCE | Marin Clean Energy | 2029 | CCA | 5,827.36 |
| PGE | MCE | Marin Clean Energy | 2030 | CCA | 5,955.34 |
| PGE | MCE | Marin Clean Energy | 2031 | CCA | 5,982.79 |
| PGE | MCE | Marin Clean Energy | 2032 | CCA | 6,039.93 |
| PGE | MCE | Marin Clean Energy | 2033 | CCA | 6,040.19 |
| PGE | MCE | Marin Clean Energy | 2034 | CCA | 6,066.94 |
| PGE | MCE | Marin Clean Energy | 2035 | CCA | 6,098.58 |
| PGE | PCEA | Peninsula Clean Energy Authority | 2023 | CCA | 3,424.82 |
| PGE | PCEA | Peninsula Clean Energy Authority | 2024 | CCA | 3,455.72 |
| PGE | PCEA | Peninsula Clean Energy Authority | 2025 | CCA | 3,461.01 |
| PGE | PCEA | Peninsula Clean Energy Authority | 2026 | CCA | 3,495.78 |
| PGE | PCEA | Peninsula Clean Energy Authority | 2027 | CCA | 3,554.01 |
| PGE | PCEA | Peninsula Clean Energy Authority | 2028 | CCA | 3,620.17 |
| PGE | PCEA | Peninsula Clean Energy Authority | 2029 | CCA | 3,666.17 |
| PGE | PCEA | Peninsula Clean Energy Authority | 2030 | CCA | 3,721.49 |
| PGE | PCEA | Peninsula Clean Energy Authority | 2031 | CCA | 3,780.66 |
| PGE | PCEA | Peninsula Clean Energy Authority | 2032 | CCA | 3,847.92 |
| PGE | PCEA | Peninsula Clean Energy Authority | 2033 | CCA | 3,897.29 |
| PGE | PCEA | Peninsula Clean Energy Authority | 2034 | CCA | 3,960.71 |
| PGE | PCEA | Peninsula Clean Energy Authority | 2035 | CCA | 4,032.71 |
| PGE | PIONEER | Pioneer Community Energy | 2023 | CCA | 1,888.43 |
| PGE | PIONEER | Pioneer Community Energy | 2024 | CCA | 1,904.69 |
| PGE | PIONEER | Pioneer Community Energy | 2025 | CCA | 1,916.17 |
| PGE | PIONEER | Pioneer Community Energy | 2026 | CCA | 1,926.85 |
| PGE | PIONEER | Pioneer Community Energy | 2027 | CCA | 1,938.95 |
| PGE | PIONEER | Pioneer Community Energy | 2028 | CCA | 1,951.69 |
| PGE | PIONEER | Pioneer Community Energy | 2029 | CCA | 1,968.03 |
| PGE | PIONEER | Pioneer Community Energy | 2030 | CCA | 1,986.47 |
| PGE | PIONEER | Pioneer Community Energy | 2031 | CCA | 2,006.21 |
| PGE | PIONEER | Pioneer Community Energy | 2032 | CCA | 2,023.27 |
| PGE | PIONEER | Pioneer Community Energy | 2033 | CCA | 2,044.07 |
| PGE | PIONEER | Pioneer Community Energy | 2034 | CCA | 2,065.07 |
| PGE | PIONEER | Pioneer Community Energy | 2035 | CCA | 2,089.92 |
| PGE | RCEA | Redwood Coast Energy Authority | 2023 | CCA | 674.13 |
| PGE | RCEA | Redwood Coast Energy Authority | 2024 | CCA | 677.92 |
| PGE | RCEA | Redwood Coast Energy Authority | 2025 | CCA | 678.67 |
| PGE | RCEA | Redwood Coast Energy Authority | 2026 | CCA | 680.61 |
| PGE | RCEA | Redwood Coast Energy Authority | 2027 | CCA | 682.11 |
| PGE | RCEA | Redwood Coast Energy Authority | 2028 | CCA | 683.33 |
| PGE | RCEA | Redwood Coast Energy Authority | 2029 | CCA | 684.37 |
| PGE | RCEA | Redwood Coast Energy Authority | 2030 | CCA | 685.27 |
| PGE | RCEA | Redwood Coast Energy Authority | 2031 | CCA | 686.06 |
| PGE | RCEA | Redwood Coast Energy Authority | 2032 | CCA | 686.77 |
| PGE | RCEA | Redwood Coast Energy Authority | 2033 | CCA | 687.38 |
| PGE | RCEA | Redwood Coast Energy Authority | 2034 | CCA | 687.96 |
| PGE | RCEA | Redwood Coast Energy Authority | 2035 | CCA | 688.50 |

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|---|---|---|---|---|---|
| PGE | SJCE | San José Clean Energy | 2023 | CCA | 3,789.74 |
| PGE | SJCE | San José Clean Energy | 2024 | CCA | 3,820.79 |
| PGE | SJCE | San José Clean Energy | 2025 | CCA | 3,844.49 |
| PGE | SJCE | San José Clean Energy | 2026 | CCA | 3,867.62 |
| PGE | SJCE | San José Clean Energy | 2027 | CCA | 3,894.50 |
| PGE | SJCE | San José Clean Energy | 2028 | CCA | 3,921.64 |
| PGE | SJCE | San José Clean Energy | 2029 | CCA | 3,957.58 |
| PGE | SJCE | San José Clean Energy | 2030 | CCA | 3,995.71 |
| PGE | SJCE | San José Clean Energy | 2031 | CCA | 4,040.38 |
| PGE | SJCE | San José Clean Energy | 2032 | CCA | 4,079.40 |
| PGE | SJCE | San José Clean Energy | 2033 | CCA | 4,126.86 |
| PGE | SJCE | San José Clean Energy | 2034 | CCA | 4,174.19 |
| PGE | SJCE | San José Clean Energy | 2035 | CCA | 4,227.40 |
| PGE | SVCEA | Silicon Valley Clean Energy Authority | 2023 | CCA | 3,654.29 |
| PGE | SVCEA | Silicon Valley Clean Energy Authority | 2024 | CCA | 3,681.47 |
| PGE | SVCEA | Silicon Valley Clean Energy Authority | 2025 | CCA | 3,700.66 |
| PGE | SVCEA | Silicon Valley Clean Energy Authority | 2026 | CCA | 3,720.83 |
| PGE | SVCEA | Silicon Valley Clean Energy Authority | 2027 | CCA | 3,744.51 |
| PGE | SVCEA | Silicon Valley Clean Energy Authority | 2028 | CCA | 3,767.83 |
| PGE | SVCEA | Silicon Valley Clean Energy Authority | 2029 | CCA | 3,799.80 |
| PGE | SVCEA | Silicon Valley Clean Energy Authority | 2030 | CCA | 3,833.43 |
| PGE | SVCEA | Silicon Valley Clean Energy Authority | 2031 | CCA | 3,874.42 |
| PGE | SVCEA | Silicon Valley Clean Energy Authority | 2032 | CCA | 3,909.98 |
| PGE | SVCEA | Silicon Valley Clean Energy Authority | 2033 | CCA | 3,953.07 |
| PGE | SVCEA | Silicon Valley Clean Energy Authority | 2034 | CCA | 3,995.93 |
| PGE | SVCEA | Silicon Valley Clean Energy Authority | 2035 | CCA | 4,043.64 |
| PGE | SOMA | Sonoma Clean Power | 2023 | CCA | 2,208.14 |
| PGE | SOMA | Sonoma Clean Power | 2024 | CCA | 2,227.09 |
| PGE | SOMA | Sonoma Clean Power | 2025 | CCA | 2,241.23 |
| PGE | SOMA | Sonoma Clean Power | 2026 | CCA | 2,254.51 |
| PGE | SOMA | Sonoma Clean Power | 2027 | CCA | 2,269.72 |
| PGE | SOMA | Sonoma Clean Power | 2028 | CCA | 2,285.47 |
| PGE | SOMA | Sonoma Clean Power | 2029 | CCA | 2,305.87 |
| PGE | SOMA | Sonoma Clean Power | 2030 | CCA | 2,328.20 |
| PGE | SOMA | Sonoma Clean Power | 2031 | CCA | 2,353.02 |
| PGE | SOMA | Sonoma Clean Power | 2032 | CCA | 2,374.63 |
| PGE | SOMA | Sonoma Clean Power | 2033 | CCA | 2,400.97 |
| PGE | SOMA | Sonoma Clean Power | 2034 | CCA | 2,427.39 |
| PGE | SOMA | Sonoma Clean Power | 2035 | CCA | 2,457.92 |
| PGE | VCEA | Valley Clean Energy Alliance | 2023 | CCA | 727.31 |
| PGE | VCEA | Valley Clean Energy Alliance | 2024 | CCA | 718.40 |
| PGE | VCEA | Valley Clean Energy Alliance | 2025 | CCA | 729.10 |
| PGE | VCEA | Valley Clean Energy Alliance | 2026 | CCA | 740.65 |
| PGE | VCEA | Valley Clean Energy Alliance | 2027 | CCA | 751.72 |
| PGE | VCEA | Valley Clean Energy Alliance | 2028 | CCA | 764.61 |
| PGE | VCEA | Valley Clean Energy Alliance | 2029 | CCA | 774.12 |
| PGE | VCEA | Valley Clean Energy Alliance | 2030 | CCA | 786.37 |
| PGE | VCEA | Valley Clean Energy Alliance | 2031 | CCA | 798.81 |
| PGE | VCEA | Valley Clean Energy Alliance | 2032 | CCA | 812.46 |
| PGE | VCEA | Valley Clean Energy Alliance | 2033 | CCA | 822.41 |
| PGE | VCEA | Valley Clean Energy Alliance | 2034 | CCA | 833.95 |
| PGE | VCEA | Valley Clean Energy Alliance | 2035 | CCA | 846.61 |
| SCE | AVCE | Apple Valley Choice Energy | 2023 | CCA | 257.34 |
| SCE | AVCE | Apple Valley Choice Energy | 2024 | CCA | 260.33 |
| SCE | AVCE | Apple Valley Choice Energy | 2025 | CCA | 262.17 |
| SCE | AVCE | Apple Valley Choice Energy | 2026 | CCA | 263.86 |
| SCE | AVCE | Apple Valley Choice Energy | 2027 | CCA | 266.23 |
| SCE | AVCE | Apple Valley Choice Energy | 2028 | CCA | 268.11 |
| SCE | AVCE | Apple Valley Choice Energy | 2029 | CCA | 269.93 |
| SCE | AVCE | Apple Valley Choice Energy | 2030 | CCA | 271.62 |
| SCE | AVCE | Apple Valley Choice Energy | 2031 | CCA | 273.14 |
| SCE | AVCE | Apple Valley Choice Energy | 2032 | CCA | 274.01 |

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|---|---|---|---|---|---|
| SCE | AVCE | Apple Valley Choice Energy | 2033 | CCA | 275.00 |
| SCE | AVCE | Apple Valley Choice Energy | 2034 | CCA | 275.88 |
| SCE | AVCE | Apple Valley Choice Energy | 2035 | CCA | 276.96 |
| SCE | 3CE | Central Coast Community Energy | 2023 | CCA | 553.70 |
| SCE | 3CE | Central Coast Community Energy | 2024 | CCA | 551.01 |
| SCE | 3CE | Central Coast Community Energy | 2025 | CCA | 548.29 |
| SCE | 3CE | Central Coast Community Energy | 2026 | CCA | 545.56 |
| SCE | 3CE | Central Coast Community Energy | 2027 | CCA | 542.84 |
| SCE | 3CE | Central Coast Community Energy | 2028 | CCA | 540.12 |
| SCE | 3CE | Central Coast Community Energy | 2029 | CCA | 537.41 |
| SCE | 3CE | Central Coast Community Energy | 2030 | CCA | 534.72 |
| SCE | 3CE | Central Coast Community Energy | 2031 | CCA | 532.07 |
| SCE | 3CE | Central Coast Community Energy | 2032 | CCA | 529.42 |
| SCE | 3CE | Central Coast Community Energy | 2033 | CCA | 533.00 |
| SCE | 3CE | Central Coast Community Energy | 2034 | CCA | 536.46 |
| SCE | 3CE | Central Coast Community Energy | 2035 | CCA | 540.25 |
| SCE | CPASC | Clean Power Alliance | 2023 | CCA | 10,901.82 |
| SCE | CPASC | Clean Power Alliance | 2024 | CCA | 11,015.38 |
| SCE | CPASC | Clean Power Alliance | 2025 | CCA | 11,087.48 |
| SCE | CPASC | Clean Power Alliance | 2026 | CCA | 11,154.57 |
| SCE | CPASC | Clean Power Alliance | 2027 | CCA | 11,248.74 |
| SCE | CPASC | Clean Power Alliance | 2028 | CCA | 11,321.00 |
| SCE | CPASC | Clean Power Alliance | 2029 | CCA | 11,397.82 |
| SCE | CPASC | Clean Power Alliance | 2030 | CCA | 11,466.83 |
| SCE | CPASC | Clean Power Alliance | 2031 | CCA | 11,543.04 |
| SCE | CPASC | Clean Power Alliance | 2032 | CCA | 11,589.56 |
| SCE | CPASC | Clean Power Alliance | 2033 | CCA | 11,643.36 |
| SCE | CPASC | Clean Power Alliance | 2034 | CCA | 11,692.24 |
| SCE | CPASC | Clean Power Alliance | 2035 | CCA | 11,744.26 |
| SCE | DCE | Desert Community Energy | 2023 | CCA | 444.00 |
| SCE | DCE | Desert Community Energy | 2024 | CCA | 456.45 |
| SCE | DCE | Desert Community Energy | 2025 | CCA | 459.91 |
| SCE | DCE | Desert Community Energy | 2026 | CCA | 461.33 |
| SCE | DCE | Desert Community Energy | 2027 | CCA | 462.99 |
| SCE | DCE | Desert Community Energy | 2028 | CCA | 464.89 |
| SCE | DCE | Desert Community Energy | 2029 | CCA | 467.04 |
| SCE | DCE | Desert Community Energy | 2030 | CCA | 469.42 |
| SCE | DCE | Desert Community Energy | 2031 | CCA | 472.05 |
| SCE | DCE | Desert Community Energy | 2032 | CCA | 474.93 |
| SCE | DCE | Desert Community Energy | 2033 | CCA | 478.04 |
| SCE | DCE | Desert Community Energy | 2034 | CCA | 481.40 |
| SCE | DCE | Desert Community Energy | 2035 | CCA | 485.00 |
| SCE | PALMDALE | Energy for Palmdale's Independent Choice | 2023 | CCA | 552.80 |
| SCE | PALMDALE | Energy for Palmdale's Independent Choice | 2024 | CCA | 610.35 |
| SCE | PALMDALE | Energy for Palmdale's Independent Choice | 2025 | CCA | 615.01 |
| SCE | PALMDALE | Energy for Palmdale's Independent Choice | 2026 | CCA | 619.34 |
| SCE | PALMDALE | Energy for Palmdale's Independent Choice | 2027 | CCA | 625.16 |
| SCE | PALMDALE | Energy for Palmdale's Independent Choice | 2028 | CCA | 630.11 |
| SCE | PALMDALE | Energy for Palmdale's Independent Choice | 2029 | CCA | 635.50 |
| SCE | PALMDALE | Energy for Palmdale's Independent Choice | 2030 | CCA | 640.32 |
| SCE | PALMDALE | Energy for Palmdale's Independent Choice | 2031 | CCA | 645.45 |
| SCE | PALMDALE | Energy for Palmdale's Independent Choice | 2032 | CCA | 648.93 |
| SCE | PALMDALE | Energy for Palmdale's Independent Choice | 2033 | CCA | 652.90 |
| SCE | PALMDALE | Energy for Palmdale's Independent Choice | 2034 | CCA | 656.53 |
| SCE | PALMDALE | Energy for Palmdale's Independent Choice | 2035 | CCA | 660.25 |
| SCE | LCE | Lancaster Choice Energy | 2023 | CCA | 589.26 |
| SCE | LCE | Lancaster Choice Energy | 2024 | CCA | 595.74 |
| SCE | LCE | Lancaster Choice Energy | 2025 | CCA | 599.86 |
| SCE | LCE | Lancaster Choice Energy | 2026 | CCA | 603.66 |
| SCE | LCE | Lancaster Choice Energy | 2027 | CCA | 608.98 |
| SCE | LCE | Lancaster Choice Energy | 2028 | CCA | 613.16 |
| SCE | LCE | Lancaster Choice Energy | 2029 | CCA | 617.43 |

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|---|---|---|---|---|---|
| SCE | LCE | Lancaster Choice Energy | 2030 | CCA | 621.33 |
| SCE | LCE | Lancaster Choice Energy | 2031 | CCA | 625.23 |
| SCE | LCE | Lancaster Choice Energy | 2032 | CCA | 627.58 |
| SCE | LCE | Lancaster Choice Energy | 2033 | CCA | 630.28 |
| SCE | LCE | Lancaster Choice Energy | 2034 | CCA | 632.71 |
| SCE | LCE | Lancaster Choice Energy | 2035 | CCA | 635.45 |
| SCE | OCPA | Orange County Power Authority | 2023 | CCA | 3,581.79 |
| SCE | OCPA | Orange County Power Authority | 2024 | CCA | 3,942.95 |
| SCE | OCPA | Orange County Power Authority | 2025 | CCA | 3,973.07 |
| SCE | OCPA | Orange County Power Authority | 2026 | CCA | 4,001.06 |
| SCE | OCPA | Orange County Power Authority | 2027 | CCA | 4,038.60 |
| SCE | OCPA | Orange County Power Authority | 2028 | CCA | 4,070.64 |
| SCE | OCPA | Orange County Power Authority | 2029 | CCA | 4,105.44 |
| SCE | OCPA | Orange County Power Authority | 2030 | CCA | 4,136.55 |
| SCE | OCPA | Orange County Power Authority | 2031 | CCA | 4,169.66 |
| SCE | OCPA | Orange County Power Authority | 2032 | CCA | 4,192.14 |
| SCE | OCPA | Orange County Power Authority | 2033 | CCA | 4,217.79 |
| SCE | OCPA | Orange County Power Authority | 2034 | CCA | 4,241.19 |
| SCE | OCPA | Orange County Power Authority | 2035 | CCA | 4,265.26 |
| SCE | PRIME | Pico Rivera Innovative Municipal Energy | 2023 | CCA | 225.46 |
| SCE | PRIME | Pico Rivera Innovative Municipal Energy | 2024 | CCA | 227.74 |
| SCE | PRIME | Pico Rivera Innovative Municipal Energy | 2025 | CCA | 229.23 |
| SCE | PRIME | Pico Rivera Innovative Municipal Energy | 2026 | CCA | 230.63 |
| SCE | PRIME | Pico Rivera Innovative Municipal Energy | 2027 | CCA | 232.58 |
| SCE | PRIME | Pico Rivera Innovative Municipal Energy | 2028 | CCA | 234.09 |
| SCE | PRIME | Pico Rivera Innovative Municipal Energy | 2029 | CCA | 235.74 |
| SCE | PRIME | Pico Rivera Innovative Municipal Energy | 2030 | CCA | 237.21 |
| SCE | PRIME | Pico Rivera Innovative Municipal Energy | 2031 | CCA | 238.91 |
| SCE | PRIME | Pico Rivera Innovative Municipal Energy | 2032 | CCA | 239.98 |
| SCE | PRIME | Pico Rivera Innovative Municipal Energy | 2033 | CCA | 241.22 |
| SCE | PRIME | Pico Rivera Innovative Municipal Energy | 2034 | CCA | 242.35 |
| SCE | PRIME | Pico Rivera Innovative Municipal Energy | 2035 | CCA | 243.51 |
| SCE | POMONA | Pomona Choice Energy | 2023 | CCA | 386.84 |
| SCE | POMONA | Pomona Choice Energy | 2024 | CCA | 390.80 |
| SCE | POMONA | Pomona Choice Energy | 2025 | CCA | 393.61 |
| SCE | POMONA | Pomona Choice Energy | 2026 | CCA | 396.20 |
| SCE | POMONA | Pomona Choice Energy | 2027 | CCA | 399.73 |
| SCE | POMONA | Pomona Choice Energy | 2028 | CCA | 402.69 |
| SCE | POMONA | Pomona Choice Energy | 2029 | CCA | 405.84 |
| SCE | POMONA | Pomona Choice Energy | 2030 | CCA | 408.68 |
| SCE | POMONA | Pomona Choice Energy | 2031 | CCA | 411.58 |
| SCE | POMONA | Pomona Choice Energy | 2032 | CCA | 413.48 |
| SCE | POMONA | Pomona Choice Energy | 2033 | CCA | 415.67 |
| SCE | POMONA | Pomona Choice Energy | 2034 | CCA | 417.66 |
| SCE | POMONA | Pomona Choice Energy | 2035 | CCA | 419.77 |
| SCE | RMEA | Rancho Mirage Energy Authority | 2023 | CCA | 280.26 |
| SCE | RMEA | Rancho Mirage Energy Authority | 2024 | CCA | 283.27 |
| SCE | RMEA | Rancho Mirage Energy Authority | 2025 | CCA | 284.97 |
| SCE | RMEA | Rancho Mirage Energy Authority | 2026 | CCA | 286.55 |
| SCE | RMEA | Rancho Mirage Energy Authority | 2027 | CCA | 288.84 |
| SCE | RMEA | Rancho Mirage Energy Authority | 2028 | CCA | 290.47 |
| SCE | RMEA | Rancho Mirage Energy Authority | 2029 | CCA | 292.09 |
| SCE | RMEA | Rancho Mirage Energy Authority | 2030 | CCA | 293.58 |
| SCE | RMEA | Rancho Mirage Energy Authority | 2031 | CCA | 295.16 |
| SCE | RMEA | Rancho Mirage Energy Authority | 2032 | CCA | 295.99 |
| SCE | RMEA | Rancho Mirage Energy Authority | 2033 | CCA | 296.96 |
| SCE | RMEA | Rancho Mirage Energy Authority | 2034 | CCA | 297.83 |
| SCE | RMEA | Rancho Mirage Energy Authority | 2035 | CCA | 298.85 |
| SCE | SJP | San Jacinto Power | 2023 | CCA | 167.99 |
| SCE | SJP | San Jacinto Power | 2024 | CCA | 169.89 |
| SCE | SJP | San Jacinto Power | 2025 | CCA | 171.04 |
| SCE | SJP | San Jacinto Power | 2026 | CCA | 172.08 |

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|---|---|---|---|---|---|
| SCE | SJP | San Jacinto Power | 2027 | CCA | 173.57 |
| SCE | SJP | San Jacinto Power | 2028 | CCA | 174.71 |
| SCE | SJP | San Jacinto Power | 2029 | CCA | 175.82 |
| SCE | SJP | San Jacinto Power | 2030 | CCA | 176.85 |
| SCE | SJP | San Jacinto Power | 2031 | CCA | 177.82 |
| SCE | SJP | San Jacinto Power | 2032 | CCA | 178.35 |
| SCE | SJP | San Jacinto Power | 2033 | CCA | 178.97 |
| SCE | SJP | San Jacinto Power | 2034 | CCA | 179.52 |
| SCE | SJP | San Jacinto Power | 2035 | CCA | 180.19 |
| SCE | SBCE | Santa Barbara Clean Energy | 2023 | CCA | 340.61 |
| SCE | SBCE | Santa Barbara Clean Energy | 2024 | CCA | 344.03 |
| SCE | SBCE | Santa Barbara Clean Energy | 2025 | CCA | 346.43 |
| SCE | SBCE | Santa Barbara Clean Energy | 2026 | CCA | 348.65 |
| SCE | SBCE | Santa Barbara Clean Energy | 2027 | CCA | 351.69 |
| SCE | SBCE | Santa Barbara Clean Energy | 2028 | CCA | 354.17 |
| SCE | SBCE | Santa Barbara Clean Energy | 2029 | CCA | 356.88 |
| SCE | SBCE | Santa Barbara Clean Energy | 2030 | CCA | 359.30 |
| SCE | SBCE | Santa Barbara Clean Energy | 2031 | CCA | 361.93 |
| SCE | SBCE | Santa Barbara Clean Energy | 2032 | CCA | 363.67 |
| SCE | SBCE | Santa Barbara Clean Energy | 2033 | CCA | 365.65 |
| SCE | SBCE | Santa Barbara Clean Energy | 2034 | CCA | 367.47 |
| SCE | SBCE | Santa Barbara Clean Energy | 2035 | CCA | 369.34 |
| SDGE | CEA | Clean Energy Alliance | 2023 | CCA | 1,266.71 |
| SDGE | CEA | Clean Energy Alliance | 2024 | CCA | 1,487.19 |
| SDGE | CEA | Clean Energy Alliance | 2025 | CCA | 1,496.06 |
| SDGE | CEA | Clean Energy Alliance | 2026 | CCA | 1,504.22 |
| SDGE | CEA | Clean Energy Alliance | 2027 | CCA | 1,512.16 |
| SDGE | CEA | Clean Energy Alliance | 2028 | CCA | 1,520.15 |
| SDGE | CEA | Clean Energy Alliance | 2029 | CCA | 1,528.80 |
| SDGE | CEA | Clean Energy Alliance | 2030 | CCA | 1,538.83 |
| SDGE | CEA | Clean Energy Alliance | 2031 | CCA | 1,551.38 |
| SDGE | CEA | Clean Energy Alliance | 2032 | CCA | 1,560.79 |
| SDGE | CEA | Clean Energy Alliance | 2033 | CCA | 1,571.53 |
| SDGE | CEA | Clean Energy Alliance | 2034 | CCA | 1,580.06 |
| SDGE | CEA | Clean Energy Alliance | 2035 | CCA | 1,589.35 |
| SDGE | OCPA | Orange County Power Authority | 2023 | CCA | 22.45 |
| SDGE | OCPA | Orange County Power Authority | 2024 | CCA | 169.46 |
| SDGE | OCPA | Orange County Power Authority | 2025 | CCA | 170.47 |
| SDGE | OCPA | Orange County Power Authority | 2026 | CCA | 171.40 |
| SDGE | OCPA | Orange County Power Authority | 2027 | CCA | 172.31 |
| SDGE | OCPA | Orange County Power Authority | 2028 | CCA | 173.22 |
| SDGE | OCPA | Orange County Power Authority | 2029 | CCA | 174.20 |
| SDGE | OCPA | Orange County Power Authority | 2030 | CCA | 175.35 |
| SDGE | OCPA | Orange County Power Authority | 2031 | CCA | 176.78 |
| SDGE | OCPA | Orange County Power Authority | 2032 | CCA | 177.85 |
| SDGE | OCPA | Orange County Power Authority | 2033 | CCA | 179.07 |
| SDGE | OCPA | Orange County Power Authority | 2034 | CCA | 180.04 |
| SDGE | OCPA | Orange County Power Authority | 2035 | CCA | 181.10 |
| SDGE | SDCP | San Diego Community Power | 2023 | CCA | 7,422.00 |
| SDGE | SDCP | San Diego Community Power | 2024 | CCA | 7,932.00 |
| SDGE | SDCP | San Diego Community Power | 2025 | CCA | 7,979.31 |
| SDGE | SDCP | San Diego Community Power | 2026 | CCA | 8,022.80 |
| SDGE | SDCP | San Diego Community Power | 2027 | CCA | 8,065.19 |
| SDGE | SDCP | San Diego Community Power | 2028 | CCA | 8,107.78 |
| SDGE | SDCP | San Diego Community Power | 2029 | CCA | 8,153.91 |
| SDGE | SDCP | San Diego Community Power | 2030 | CCA | 8,207.38 |
| SDGE | SDCP | San Diego Community Power | 2031 | CCA | 8,274.38 |
| SDGE | SDCP | San Diego Community Power | 2032 | CCA | 8,324.52 |
| SDGE | SDCP | San Diego Community Power | 2033 | CCA | 8,381.84 |
| SDGE | SDCP | San Diego Community Power | 2034 | CCA | 8,427.34 |
| SDGE | SDCP | San Diego Community Power | 2035 | CCA | 8,476.83 |
| Bear Valley Electric Service | BEAR | Bear Valley Electric Service | 2023 | SMJ | 132.48 |

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|---|---|---|---|---|---|
| Bear Valley Electric Service | BEAR | Bear Valley Electric Service | 2024 | SMJ | 132.48 |
| Bear Valley Electric Service | BEAR | Bear Valley Electric Service | 2025 | SMJ | 133.49 |
| Bear Valley Electric Service | BEAR | Bear Valley Electric Service | 2026 | SMJ | 134.42 |
| Bear Valley Electric Service | BEAR | Bear Valley Electric Service | 2027 | SMJ | 135.68 |
| Bear Valley Electric Service | BEAR | Bear Valley Electric Service | 2028 | SMJ | 136.74 |
| Bear Valley Electric Service | BEAR | Bear Valley Electric Service | 2029 | SMJ | 137.83 |
| Bear Valley Electric Service | BEAR | Bear Valley Electric Service | 2030 | SMJ | 138.82 |
| Bear Valley Electric Service | BEAR | Bear Valley Electric Service | 2031 | SMJ | 139.78 |
| Bear Valley Electric Service | BEAR | Bear Valley Electric Service | 2032 | SMJ | 140.39 |
| Bear Valley Electric Service | BEAR | Bear Valley Electric Service | 2033 | SMJ | 141.09 |
| Bear Valley Electric Service | BEAR | Bear Valley Electric Service | 2034 | SMJ | 141.72 |
| Bear Valley Electric Service | BEAR | Bear Valley Electric Service | 2035 | SMJ | 142.42 |
| Liberty Utilities | LIB | Liberty Utilities | 2023 | SMJ | 557.67 |
| Liberty Utilities | LIB | Liberty Utilities | 2024 | SMJ | 557.67 |
| Liberty Utilities | LIB | Liberty Utilities | 2025 | SMJ | 561.20 |
| Liberty Utilities | LIB | Liberty Utilities | 2026 | SMJ | 564.80 |
| Liberty Utilities | LIB | Liberty Utilities | 2027 | SMJ | 568.80 |
| Liberty Utilities | LIB | Liberty Utilities | 2028 | SMJ | 571.91 |
| Liberty Utilities | LIB | Liberty Utilities | 2029 | SMJ | 575.63 |
| Liberty Utilities | LIB | Liberty Utilities | 2030 | SMJ | 579.47 |
| Liberty Utilities | LIB | Liberty Utilities | 2031 | SMJ | 583.93 |
| Liberty Utilities | LIB | Liberty Utilities | 2032 | SMJ | 587.55 |
| Liberty Utilities | LIB | Liberty Utilities | 2033 | SMJ | 591.50 |
| Liberty Utilities | LIB | Liberty Utilities | 2034 | SMJ | 595.24 |
| Liberty Utilities | LIB | Liberty Utilities | 2035 | SMJ | 599.16 |
| PacifiCorp | PCORP | PacifiCorp | 2023 | SMJ | 871.48 |
| PacifiCorp | PCORP | PacifiCorp | 2024 | SMJ | 874.56 |
| PacifiCorp | PCORP | PacifiCorp | 2025 | SMJ | 873.57 |
| PacifiCorp | PCORP | PacifiCorp | 2026 | SMJ | 876.03 |
| PacifiCorp | PCORP | PacifiCorp | 2027 | SMJ | 879.11 |
| PacifiCorp | PCORP | PacifiCorp | 2028 | SMJ | 884.04 |
| PacifiCorp | PCORP | PacifiCorp | 2029 | SMJ | 884.19 |
| PacifiCorp | PCORP | PacifiCorp | 2030 | SMJ | 886.08 |
| PacifiCorp | PCORP | PacifiCorp | 2031 | SMJ | 887.88 |
| PacifiCorp | PCORP | PacifiCorp | 2032 | SMJ | 892.46 |
| PacifiCorp | PCORP | PacifiCorp | 2033 | SMJ | 892.14 |
| PacifiCorp | PCORP | PacifiCorp | 2034 | SMJ | 894.41 |
| PacifiCorp | PCORP | PacifiCorp | 2035 | SMJ | 896.63 |

## Individual LSE Behind-the-Meter Photovoltaic (BTM PV)

*Assigned per June 15, 2022 ALJ Ruling - https://docs.cpuc.ca.gov/*

| | | | | Generation (GWh) (measured at customer, not grossed up for | | | | |
|---|---|---|---|---|---|---|---|---|
| Service Ar | Type | LSE CPUC | LSE Name | 2023 | 2024 | 2025 | 2026 | 2027 |
| PGE | IOU | PGE | Pacific Gas | 3,907 | 4,240 | 4,552 | 4,867 | 5,198 |
| PGE | ESP | | Pacific Gas | 1,655 | 1,783 | 1,903 | 2,024 | 2,149 |
| PGE | CCA | 3CE | Central Coas | 662 | 719 | 771 | 824 | 881 |
| PGE | CCA | CPSF | CleanPower$ | 428 | 465 | 500 | 536 | 573 |
| PGE | CCA | EBCE | East Bay Co | 966 | 1,055 | 1,138 | 1,223 | 1,312 |
| PGE | CCA | KCCP | King City Co | 5 | 5 | 6 | 6 | 7 |
| PGE | CCA | MCE | Marin Clean | 832 | 901 | 961 | 1,023 | 1,088 |
| PGE | CCA | PCEA | Peninsula Cl | 497 | 541 | 578 | 621 | 671 |
| PGE | CCA | PIONEER | Pioneer Com | 274 | 298 | 320 | 342 | 366 |
| PGE | CCA | RCEA | Redwood Co | 98 | 106 | 113 | 121 | 129 |
| PGE | CCA | SJCE | San José Cl | 550 | 598 | 642 | 687 | 735 |
| PGE | CCA | SVCEA | Silicon Valle | 531 | 576 | 618 | 661 | 706 |
| PGE | CCA | SOMA | Sonoma Clea | 321 | 348 | 374 | 401 | 428 |
| PGE | CCA | VCEA | Valley Clean | 106 | 112 | 122 | 132 | 142 |
| SCE | IOU | SCE | Southern Ca | 4,975 | 5,374 | 5,783 | 6,212 | 6,661 |
| SCE | ESP | | Southern Ca | 424 | 457 | 489 | 522 | 555 |
| SCE | CCA | AVCE | Apple Valley | 49 | 53 | 57 | 61 | 66 |
| SCE | CCA | COBP | Baldwin Park | - | - | - | - | - |
| SCE | CCA | 3CE | Central Coas | 53 | 57 | 61 | 65 | 68 |
| SCE | CCA | CPASC | Clean Power | 731 | 795 | 856 | 919 | 986 |
| SCE | CCA | DCE | Desert Comr | 64 | 71 | 76 | 82 | 87 |
| SCE | CCA | PALMDALE | Energy for F | 53 | 63 | 68 | 73 | 79 |
| SCE | CCA | LCE | Lancaster C | 119 | 130 | 140 | 150 | 161 |
| SCE | CCA | OCPA | Orange Cou | 345 | 409 | 440 | 473 | 508 |
| SCE | CCA | PRIME | Pico Rivera | 14 | 16 | 17 | 18 | 19 |
| SCE | CCA | POMONA | Pomona Cho | 12 | 13 | 14 | 15 | 16 |
| SCE | CCA | RMEA | Rancho Mira | 72 | 78 | 84 | 90 | 97 |
| SCE | CCA | SJP | San Jacinto | 38 | 41 | 44 | 48 | 51 |
| SCE | CCA | SBCE | Santa Barba | 33 | 36 | 38 | 41 | 44 |
| SCE | CCA | WCE | Western Cor | - | - | - | - | - |
| SDGE | IOU | SDGE | San Diego G | 875 | 772 | 823 | 877 | 934 |
| SDGE | ESP | | San Diego G | 779 | 836 | 891 | 948 | 1,006 |
| SDGE | CCA | CEA | Clean Energ | 251 | 316 | 338 | 362 | 386 |
| SDGE | CCA | OCPA | Orange Cou | 4 | 36 | 39 | 41 | 44 |
| SDGE | CCA | SDCP | San Diego C | 1,468 | 1,684 | 1,805 | 1,931 | 2,060 |

| Forecast Assignments for Use in 2022 LSE IRPs | | | | | | | |
|---|---|---|---|---|---|---|---|
| /SearchRes.aspx?docformat=ALL&docid=485625915 | | | | | | | |
| T&D losses) | | | | | | | |
| 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 |
| | | | | | | | |
| 5,536 | 5,893 | 6,226 | 6,588 | 6,935 | 7,309 | 7,663 | 8,006 |
| 2,281 | 2,408 | 2,531 | 2,647 | 2,761 | 2,867 | 2,966 | 3,055 |
| 941 | 1,000 | 1,058 | 1,115 | 1,170 | 1,224 | 1,275 | 1,324 |
| 613 | 653 | 693 | 733 | 771 | 809 | 845 | 883 |
| 1,407 | 1,501 | 1,595 | 1,687 | 1,776 | 1,861 | 1,942 | 2,022 |
| 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 |
| 1,160 | 1,232 | 1,323 | 1,390 | 1,464 | 1,520 | 1,579 | 1,636 |
| 725 | 775 | 827 | 878 | 933 | 981 | 1,031 | 1,081 |
| 391 | 416 | 441 | 466 | 490 | 514 | 538 | 560 |
| 137 | 145 | 152 | 159 | 166 | 173 | 179 | 185 |
| 785 | 837 | 888 | 939 | 989 | 1,039 | 1,087 | 1,134 |
| 754 | 803 | 852 | 900 | 948 | 995 | 1,040 | 1,084 |
| 458 | 487 | 517 | 547 | 576 | 604 | 632 | 659 |
| 153 | 164 | 175 | 186 | 197 | 207 | 217 | 227 |
| | | | | | | | |
| 7,123 | 7,603 | 8,099 | 8,615 | 9,142 | 9,679 | 10,225 | 10,774 |
| 590 | 625 | 663 | 700 | 739 | 779 | 819 | 860 |
| 71 | 75 | 80 | 85 | 90 | 96 | 101 | 106 |
| - | - | - | - | - | - | - | - |
| 72 | 76 | 80 | 84 | 89 | 94 | 100 | 105 |
| 1,055 | 1,126 | 1,200 | 1,276 | 1,354 | 1,433 | 1,513 | 1,595 |
| 93 | 99 | 106 | 112 | 119 | 127 | 134 | 142 |
| 84 | 90 | 96 | 102 | 109 | 115 | 122 | 129 |
| 172 | 184 | 196 | 208 | 221 | 234 | 247 | 260 |
| 544 | 582 | 621 | 662 | 703 | 745 | 788 | 831 |
| 21 | 22 | 24 | 25 | 27 | 28 | 30 | 32 |
| 17 | 18 | 19 | 21 | 22 | 23 | 25 | 26 |
| 103 | 110 | 117 | 125 | 132 | 140 | 147 | 155 |
| 55 | 58 | 62 | 66 | 70 | 74 | 78 | 82 |
| 47 | 51 | 54 | 57 | 61 | 65 | 68 | 72 |
| - | - | - | - | - | - | - | - |
| | | | | | | | |
| 990 | 1,048 | 1,106 | 1,165 | 1,223 | 1,281 | 1,338 | 1,393 |
| 1,065 | 1,123 | 1,180 | 1,235 | 1,290 | 1,344 | 1,397 | 1,449 |
| 411 | 436 | 461 | 486 | 511 | 536 | 560 | 585 |
| 47 | 50 | 53 | 55 | 58 | 61 | 64 | 67 |
| 2,192 | 2,324 | 2,458 | 2,593 | 2,726 | 2,859 | 2,989 | 3,118 |

*25 MMT in 2035*

*GHG benchmarks assigned per June 15, 2022 ALJ Ruling - https://docs.cpuc.ca.gov/SearchRes.aspx?docformat=ALL&docid=485625915*

| Utility | LSEs within Host Utility Territory | Proportion of Total Emissions | 2030 Load (GWh) | 2035 Load (GWh) | Proportion of 2030 Load within EDU |
|---|---|---|---|---|---|
| Bear Valley Electric Service | N/A | 0.000587773 | 138.8195 | 142.4237 | N/A |
| Liberty Utilities | N/A | 0.002547815 | 579.4708 | 599.1643 | N/A |
| Pacific Gas and Electric Company | Pacific Gas and Electric (Bundled) | 0.338367402 | 28,019.5589 | 29,851.6421 | 0.360148471 |
| | Pacific Gas and Electric (Direct Access) | | 11,393.0000 | 11,393.0000 | 0.146439548 |
| | Central Coast Community Energy | | 4,760.5600 | 4,935.5300 | 0.061189700 |
| | CleanPowerSF | | 3,119.1600 | 3,292.8900 | 0.040092020 |
| | East Bay Community Energy | | 7,179.7353 | 7,539.9690 | 0.092284489 |
| | King City Community Power | | 35.7300 | 37.9500 | 0.000459254 |
| | Marin Clean Energy | | 5,955.3400 | 6,098.5800 | 0.076546765 |
| | Peninsula Clean Energy Authority | | 3,721.4857 | 4,032.7067 | 0.047833993 |
| | Pioneer Community Energy | | 1,986.4700 | 2,089.9200 | 0.025533026 |
| | Redwood Coast Energy Authority | | 685.2700 | 688.5000 | 0.008808095 |
| | San José Clean Energy | | 3,995.7100 | 4,227.4000 | 0.051358726 |
| | Silicon Valley Clean Energy Authority | | 3,833.4300 | 4,043.6400 | 0.049272865 |
| | Sonoma Clean Power | | 2,328.2000 | 2,457.9200 | 0.029925442 |
| | Valley Clean Energy Alliance | | 786.3719 | 846.6143 | 0.010107605 |
| PacifiCorp | N/A | 0.007461402 | 886.0800 | 896.6300 | N/A |
| Southern California Edison Company | Southern California Edison (Bundled) | 0.331706007 | 53,909.2120 | 55,275.8803 | 0.620027603 |
| | Southern California Edison (Direct Access) | | 13,420.8510 | 13,420.8510 | 0.154357628 |
| | Apple Valley Choice Energy | | 271.6200 | 276.9600 | 0.003123991 |
| | Baldwin Park, City of | | 0.0000 | 0.0000 | 0.000000000 |
| | Central Coast Community Energy | | 534.7200 | 540.2500 | 0.006149991 |
| | Clean Power Alliance | | 11,466.8300 | 11,744.2600 | 0.131883789 |
| | Desert Community Energy | | 469.4200 | 485.0000 | 0.005398954 |
| | Energy for Palmdale's Independent Choice | | 640.3184 | 660.2467 | 0.007364513 |
| | Lancaster Choice Energy | | 621.3300 | 635.4500 | 0.007146121 |
| | Orange County Power Authority | | 4,136.5522 | 4,265.2616 | 0.047575850 |
| | Pico Rivera Innovative Municipal Energy | | 237.2100 | 243.5100 | 0.002728230 |
| | Pomona Choice Energy | | 408.6800 | 419.7700 | 0.004700363 |
| | Rancho Mirage Energy Authority | | 293.5800 | 298.8500 | 0.003376560 |
| | San Jacinto Power | | 176.8500 | 180.1900 | 0.002034010 |
| | Santa Barbara Clean Energy | | 359.2973 | 369.3414 | 0.004132397 |
| | Western Community Energy | | 0.0000 | 0.0000 | 0.000000000 |
| San Diego Gas & Electric Company | San Diego Gas and Electric (Bundled) | 0.088426808 | 3,694.0194 | 3,787.4129 | 0.210418652 |
| | San Diego Gas and Electric (Direct Access) | | 3,940.0000 | 3,940.0000 | 0.224430195 |
| | Clean Energy Alliance | | 1,538.8253 | 1,589.3452 | 0.087654532 |
| | Orange County Power Authority | | 175.3453 | 181.1020 | 0.009988018 |
| | Solana Energy Alliance | | 0.0000 | 0.0000 | 0.000000000 |
| | San Diego Community Power | | 8,207.3800 | 8,476.8300 | 0.467508603 |
| **TOTAL** | | **0.7690972** | **183,906.4331758** | **189,964.9911526** | |

| Proportion of 2035 Load within EDU | 2030 GHG Emissions Benchmark (MMT) | 2035 GHG Emissions Benchmark (MMT) |
|---|---|---|
| N/A | 0.014 | 0.012 |
| N/A | 0.063 | 0.051 |
| 0.366114920 | 3.013 | 2.466 |
| 0.139729241 | 1.225 | 0.941 |
| 0.060531718 | 0.512 | 0.408 |
| 0.040385589 | 0.335 | 0.272 |
| 0.092473813 | 0.772 | 0.623 |
| 0.000465437 | 0.004 | 0.003 |
| 0.074795923 | 0.640 | 0.504 |
| 0.049459058 | 0.400 | 0.333 |
| 0.025631786 | 0.214 | 0.173 |
| 0.008444096 | 0.074 | 0.057 |
| 0.051846870 | 0.430 | 0.349 |
| 0.049593149 | 0.412 | 0.334 |
| 0.030145115 | 0.250 | 0.203 |
| 0.010383286 | 0.085 | 0.070 |
| N/A | 0.204 | 0.168 |
| 0.622365246 | 4.933 | 3.993 |
| 0.151108788 | 1.228 | 0.969 |
| 0.003118363 | 0.025 | 0.020 |
| 0.000000000 | 0.000 | 0.000 |
| 0.006082813 | 0.049 | 0.039 |
| 0.132231621 | 1.049 | 0.848 |
| 0.005460739 | 0.043 | 0.035 |
| 0.007433886 | 0.059 | 0.048 |
| 0.007154694 | 0.057 | 0.046 |
| 0.048023669 | 0.378 | 0.308 |
| 0.002741741 | 0.022 | 0.018 |
| 0.004726298 | 0.037 | 0.030 |
| 0.003364828 | 0.027 | 0.022 |
| 0.002028805 | 0.016 | 0.013 |
| 0.004158510 | 0.033 | 0.027 |
| 0.000000000 | 0.000 | 0.000 |
| 0.210708105 | 0.473 | 0.386 |
| 0.219197104 | 0.505 | 0.401 |
| 0.088421283 | 0.197 | 0.162 |
| 0.010075388 | 0.022 | 0.018 |
| 0.000000000 | 0.000 | 0.000 |
| 0.471598119 | 1.052 | 0.863 |
| | **18.852** | **15.213** |