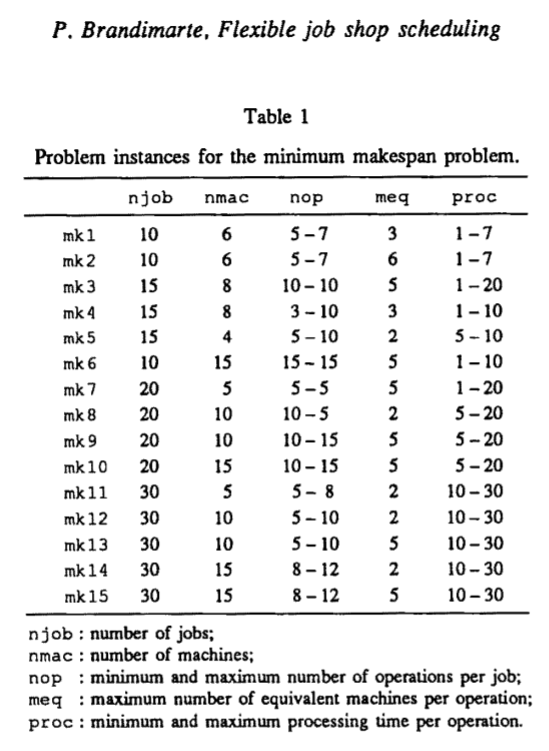
1. **The problem instances in the Reference [6].**

Brandimarte, P. . (1993). Routing and scheduling in a flexible job shop by tabu search. Annals of Operations Research, 41(3), 157-183.



1. **The experimental instances in the paper.**

Since there is seldom benchmarks exist in EFJSP with the consideration of transportation and lot splitting, it is designed to generate instances (MKT1-15) based on the FJSP benchmarks instances (MK1-15, [6]) by adding , , , , , .

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Instance |  |  |  |  |  |  |  |  |  |  |
| MKT-1 | 10 | 5 | 6 | 10 | 2-3 | 1-2 | 2-3 | 1 | 2 | 1 |
| MKT-2 | 10 | 6 | 6 | 20 | 2-3 | 1-2 | 2-3 | 1 | 3 | 2 |
| MKT-3 | 15 | 10 | 8 | 30 | 3-4 | 2-3 | 2-3 | 1 | 4 | 3 |
| MKT-4 | 15 | 3 | 8 | 10 | 3-4 | 2-3 | 2-3 | 1 | 2 | 1 |
| MKT-5 | 15 | 6 | 4 | 20 | 3-4 | 2-3 | 2-3 | 1 | 3 | 2 |
| MKT-6 | 10 | 15 | 15 | 30 | 2-3 | 1-2 | 2-3 | 1 | 4 | 3 |
| MKT-7 | 20 | 5 | 5 | 10 | 4-5 | 3-4 | 2-3 | 1 | 2 | 1 |
| MKT-8 | 20 | 6 | 10 | 15 | 4-5 | 3-4 | 2-3 | 1 | 3 | 1 |
| MKT-9 | 20 | 10 | 10 | 20 | 4-5 | 3-4 | 3-5 | 1 | 4 | 2 |
| MKT-10 | 20 | 12 | 15 | 25 | 4-5 | 3-4 | 3-5 | 1 | 5 | 3 |
| MKT-11 | 30 | 5 | 5 | 10 | 5-6 | 4-5 | 3-5 | 1 | 2 | 1 |
| MKT-12 | 30 | 6 | 10 | 15 | 5-6 | 4-5 | 3-5 | 1 | 2 | 1 |
| MKT-13 | 30 | 7 | 10 | 20 | 5-6 | 4-5 | 3-5 | 1 | 3 | 2 |
| MKT-14 | 30 | 8 | 15 | 25 | 5-6 | 4-5 | 3-5 | 1 | 4 | 2 |
| MKT-15 | 30 | 9 | 15 | 30 | 5-6 | 4-5 | 3-5 | 1 | 5 | 3 |

The processing time of each operation on the machines:

MKT-1:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | | M1 | M2 | M3 | M4 | M5 | M6 |
| J1 | O1,1 | 5 | 3 | 5 | 3 | 3 | 999 |
| O1,2 | 10 | 999 | 5 | 8 | 3 | 9 |
| O1,3 | 999 | 10 | 999 | 5 | 6 | 2 |
| O1,4 | 5 | 7 | 3 | 9 | 8 | 999 |
| O1,5 | 999 | 8 | 5 | 2 | 6 | 7 |
| J2 | O2,1 | 999 | 10 | 999 | 5 | 6 | 4 |
| O2,1 | 10 | 8 | 9 | 6 | 4 | 7 |
| O2,3 | 10 | 999 | 999 | 7 | 6 | 5 |
| O2,4 | 999 | 10 | 6 | 4 | 8 | 9 |
| O2,5 | 1 | 4 | 5 | 6 | 999 | 10 |
| J3 | O3,1 | 3 | 1 | 6 | 5 | 9 | 7 |
| O3,2 | 12 | 11 | 7 | 8 | 10 | 5 |
| O3,3 | 4 | 6 | 2 | 10 | 3 | 9 |
| O3,4 | 3 | 6 | 7 | 8 | 9 | 999 |
| O3,5 | 10 | 999 | 7 | 4 | 9 | 8 |
| J4 | O4,1 | 999 | 9 | 8 | 7 | 4 | 2 |
| O4,2 | 11 | 9 | 999 | 6 | 7 | 5 |
| O4,3 | 6 | 7 | 1 | 4 | 5 | 999 |
| O4,4 | 11 | 999 | 9 | 9 | 7 | 6 |
| O4,5 | 10 | 5 | 9 | 10 | 11 | 999 |
| J5 | O5,1 | 5 | 4 | 2 | 6 | 7 | 999 |
| O5,2 | 999 | 9 | 999 | 9 | 11 | 9 |
| O5,3 | 999 | 8 | 9 | 3 | 8 | 6 |
| O5,4 | 2 | 8 | 5 | 9 | 999 | 4 |
| O5,5 | 7 | 4 | 7 | 8 | 9 | 999 |
| J6 | O6,1 | 9 | 9 | 999 | 8 | 5 | 6 |
| O6,2 | 9 | 999 | 3 | 7 | 1 | 5 |
| O6,3 | 6 | 7 | 4 | 5 | 8 | 999 |
| O6,4 | 8 | 9 | 7 | 10 | 999 | 7 |
| O6,5 | 5 | 6 | 4 | 6 | 7 | 8 |
| J7 | O7,1 | 999 | 7 | 999 | 5 | 4 | 5 |
| O7,2 | 3 | 999 | 6 | 5 | 7 | 4 |
| O7,3 | 10 | 8 | 9 | 999 | 8 | 9 |
| O7,4 | 11 | 7 | 6 | 8 | 9 | 9 |
| O7,5 | 5 | 6 | 4 | 7 | 3 | 999 |
| J8 | O8,1 | 6 | 7 | 8 | 7 | 6 | 8 |
| O8,2 | 10 | 9 | 999 | 7 | 6 | 999 |
| O8,3 | 9 | 9 | 7 | 6 | 8 | 9 |
| O8,4 | 999 | 8 | 7 | 5 | 8 | 9 |
| O8,5 | 7 | 8 | 999 | 5 | 8 | 999 |
| J9 | O9,1 | 4 | 999 | 6 | 8 | 9 | 3 |
| O9,2 | 3 | 6 | 5 | 999 | 4 | 5 |
| O9,3 | 999 | 3 | 11 | 6 | 4 | 999 |
| O9,4 | 6 | 999 | 7 | 4 | 8 | 10 |
| O9,5 | 12 | 8 | 9 | 6 | 999 | 7 |
| J10 | O10,1 | 8 | 6 | 999 | 7 | 7 | 10 |
| O10,2 | 9 | 9 | 5 | 7 | 999 | 999 |
| O10,3 | 10 | 999 | 7 | 5 | 6 | 4 |
| O10,4 | 3 | 5 | 6 | 999 | 7 | 5 |
| O10,5 | 10 | 9 | 999 | 7 | 5 | 999 |

MKT-15:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | M1 | M2 | M3 | M4 | M5 | M6 | M7 | M8 | M9 | M10 | M11 | M12 | M13 | M14 | M15 |
| J1 | O1,1 | 5 | 999 | 8 | 6 | 7 | 6 | 12 | 999 | 6 | 9 | 7 | 5 | 6 | 7 | 999 |
| O1,2 | 7 | 5 | 12 | 11 | 999 | 12 | 6 | 7 | 4 | 7 | 999 | 999 | 6 | 8 | 999 |
| O1,3 | 8 | 7 | 999 | 10 | 7 | 5 | 9 | 10 | 999 | 7 | 6 | 11 | 999 | 7 | 9 |
| O1,4 | 999 | 5 | 5 | 8 | 11 | 9 | 9 | 999 | 9 | 8 | 6 | 999 | 11 | 8 | 7 |
| O1,5 | 6 | 12 | 999 | 6 | 7 | 999 | 999 | 11 | 10 | 7 | 7 | 8 | 7 | 999 | 5 |
| O1,6 | 12 | 999 | 8 | 9 | 8 | 10 | 7 | 9 | 5 | 9 | 999 | 999 | 6 | 8 | 6 |
| O1,7 | 9 | 8 | 7 | 6 | 999 | 6 | 6 | 10 | 7 | 7 | 8 | 12 | 6 | 6 | 11 |
| O1,8 | 8 | 7 | 7 | 9 | 6 | 8 | 6 | 10 | 999 | 7 | 5 | 8 | 8 | 7 | 6 |
| O1,9 | 9 | 4 | 11 | 5 | 12 | 5 | 7 | 8 | 5 | 10 | 9 | 7 | 9 | 8 | 999 |
| J2 | O2,1 | 9 | 999 | 6 | 11 | 6 | 8 | 10 | 999 | 12 | 7 | 10 | 10 | 6 | 11 | 6 |
| O2,2 | 999 | 9 | 11 | 8 | 6 | 999 | 10 | 8 | 6 | 9 | 9 | 5 | 8 | 8 | 12 |
| O2,3 | 9 | 6 | 8 | 7 | 9 | 999 | 8 | 11 | 10 | 7 | 6 | 7 | 999 | 11 | 10 |
| O2,4 | 8 | 12 | 12 | 8 | 9 | 9 | 6 | 5 | 7 | 999 | 9 | 11 | 8 | 7 | 11 |
| O2,5 | 9 | 5 | 999 | 6 | 6 | 7 | 12 | 11 | 10 | 11 | 11 | 8 | 8 | 4 | 5 |
| O2,6 | 6 | 6 | 10 | 9 | 5 | 8 | 4 | 9 | 7 | 8 | 7 | 999 | 10 | 4 | 5 |
| O2,7 | 10 | 9 | 8 | 7 | 8 | 7 | 999 | 5 | 10 | 6 | 8 | 11 | 5 | 7 | 999 |
| O2,8 | 999 | 9 | 6 | 8 | 5 | 4 | 5 | 8 | 7 | 11 | 7 | 10 | 8 | 11 | 10 |
| O2,9 | 12 | 11 | 9 | 11 | 999 | 10 | 6 | 5 | 999 | 5 | 11 | 8 | 9 | 999 | 6 |
| J3 | O3,1 | 12 | 7 | 5 | 999 | 9 | 10 | 8 | 8 | 6 | 12 | 8 | 12 | 7 | 8 | 11 |
| O3,2 | 6 | 6 | 7 | 10 | 11 | 8 | 5 | 11 | 8 | 11 | 4 | 4 | 9 | 6 | 999 |
| O3,3 | 11 | 999 | 999 | 9 | 5 | 4 | 4 | 10 | 8 | 999 | 4 | 7 | 8 | 6 | 8 |
| O3,4 | 5 | 6 | 4 | 10 | 10 | 999 | 12 | 11 | 5 | 9 | 10 | 7 | 999 | 10 | 7 |
| O3,5 | 7 | 10 | 10 | 5 | 6 | 6 | 11 | 5 | 11 | 9 | 11 | 11 | 7 | 7 | 10 |
| O3,6 | 10 | 9 | 11 | 10 | 10 | 8 | 9 | 999 | 7 | 6 | 6 | 4 | 4 | 999 | 5 |
| O3,7 | 8 | 8 | 11 | 999 | 5 | 5 | 6 | 999 | 5 | 6 | 999 | 7 | 5 | 9 | 5 |
| O3,8 | 11 | 7 | 8 | 9 | 9 | 6 | 5 | 11 | 8 | 6 | 999 | 8 | 8 | 4 | 999 |
| O3,9 | 999 | 7 | 999 | 8 | 7 | 11 | 5 | 8 | 8 | 999 | 8 | 999 | 8 | 4 | 12 |
| J4 | O4,1 | 6 | 999 | 9 | 6 | 9 | 10 | 6 | 7 | 7 | 11 | 10 | 10 | 9 | 5 | 5 |
| O4,2 | 9 | 6 | 4 | 4 | 10 | 999 | 9 | 7 | 11 | 7 | 8 | 999 | 4 | 4 | 999 |
| O4,3 | 9 | 6 | 8 | 6 | 6 | 8 | 6 | 999 | 7 | 5 | 11 | 5 | 7 | 8 | 5 |
| O4,4 | 10 | 9 | 10 | 999 | 7 | 6 | 7 | 10 | 12 | 9 | 11 | 5 | 6 | 999 | 7 |
| O4,5 | 5 | 5 | 8 | 6 | 10 | 11 | 9 | 11 | 6 | 8 | 8 | 999 | 5 | 9 | 8 |
| O4,6 | 999 | 6 | 11 | 10 | 12 | 5 | 6 | 9 | 8 | 4 | 8 | 10 | 9 | 8 | 7 |
| O4,7 | 7 | 8 | 7 | 8 | 5 | 8 | 5 | 11 | 9 | 999 | 12 | 6 | 7 | 9 | 999 |
| O4,8 | 999 | 9 | 999 | 8 | 8 | 999 | 9 | 9 | 10 | 12 | 11 | 5 | 8 | 10 | 5 |
| O4,9 | 12 | 11 | 999 | 6 | 7 | 4 | 7 | 8 | 5 | 6 | 10 | 8 | 8 | 9 | 999 |
| J5 | O5,1 | 10 | 6 | 10 | 8 | 8 | 9 | 8 | 999 | 999 | 5 | 11 | 8 | 11 | 5 | 6 |
| O5,2 | 5 | 10 | 4 | 10 | 10 | 5 | 11 | 5 | 12 | 9 | 8 | 8 | 5 | 999 | 8 |
| O5,3 | 999 | 8 | 10 | 4 | 6 | 6 | 12 | 11 | 7 | 5 | 999 | 8 | 5 | 9 | 8 |
| O5,4 | 11 | 999 | 8 | 11 | 8 | 10 | 999 | 6 | 7 | 4 | 6 | 10 | 6 | 8 | 999 |
| O5,5 | 8 | 9 | 9 | 999 | 11 | 6 | 999 | 9 | 8 | 8 | 6 | 7 | 7 | 5 | 5 |
| O5,6 | 7 | 11 | 9 | 6 | 7 | 10 | 11 | 9 | 10 | 12 | 999 | 11 | 9 | 7 | 12 |
| O5,7 | 8 | 6 | 6 | 8 | 999 | 7 | 5 | 8 | 11 | 12 | 12 | 6 | 5 | 10 | 999 |
| O5,8 | 6 | 7 | 4 | 7 | 9 | 12 | 4 | 6 | 5 | 999 | 6 | 5 | 12 | 10 | 8 |
| O5,9 | 999 | 7 | 11 | 6 | 11 | 12 | 6 | 8 | 6 | 12 | 4 | 11 | 12 | 12 | 7 |
| J6 | O6,1 | 7 | 10 | 12 | 6 | 5 | 4 | 4 | 10 | 8 | 4 | 5 | 10 | 999 | 6 | 5 |
| O6,2 | 8 | 7 | 11 | 6 | 999 | 10 | 6 | 5 | 10 | 7 | 6 | 4 | 11 | 6 | 7 |
| O6,3 | 8 | 12 | 999 | 7 | 11 | 4 | 11 | 9 | 11 | 999 | 5 | 8 | 8 | 10 | 11 |
| O6,4 | 9 | 6 | 12 | 12 | 5 | 9 | 4 | 6 | 999 | 7 | 5 | 7 | 9 | 12 | 11 |
| O6,5 | 4 | 999 | 8 | 11 | 8 | 9 | 10 | 8 | 4 | 6 | 4 | 10 | 12 | 10 | 999 |
| O6,6 | 9 | 7 | 7 | 6 | 10 | 8 | 12 | 999 | 8 | 5 | 11 | 8 | 5 | 999 | 5 |
| O6,7 | 6 | 5 | 999 | 5 | 10 | 6 | 5 | 5 | 10 | 6 | 999 | 11 | 4 | 10 | 999 |
| O6,8 | 8 | 11 | 10 | 999 | 9 | 11 | 9 | 5 | 11 | 11 | 7 | 999 | 6 | 10 | 5 |
| O6,9 | 9 | 10 | 12 | 7 | 5 | 999 | 9 | 6 | 6 | 12 | 5 | 6 | 12 | 9 | 7 |
| J7 | O7,1 | 12 | 12 | 5 | 8 | 5 | 4 | 999 | 10 | 5 | 5 | 5 | 12 | 999 | 7 | 999 |
| O7,2 | 999 | 10 | 8 | 7 | 11 | 4 | 5 | 10 | 8 | 999 | 9 | 8 | 9 | 4 | 10 |
| O7,3 | 12 | 7 | 8 | 11 | 8 | 12 | 10 | 999 | 7 | 12 | 4 | 5 | 5 | 8 | 9 |
| O7,4 | 999 | 11 | 11 | 10 | 12 | 8 | 12 | 9 | 12 | 8 | 6 | 9 | 7 | 999 | 11 |
| O7,5 | 10 | 4 | 11 | 9 | 10 | 8 | 5 | 10 | 999 | 11 | 7 | 999 | 9 | 6 | 6 |
| O7,6 | 8 | 8 | 7 | 999 | 6 | 8 | 7 | 11 | 9 | 6 | 999 | 8 | 6 | 9 | 8 |
| O7,7 | 5 | 7 | 12 | 8 | 6 | 9 | 9 | 5 | 10 | 5 | 5 | 7 | 7 | 10 | 8 |
| O7,8 | 11 | 999 | 11 | 7 | 5 | 11 | 10 | 8 | 10 | 999 | 10 | 5 | 11 | 9 | 6 |
| O7,9 | 9 | 9 | 10 | 12 | 4 | 7 | 6 | 9 | 10 | 12 | 11 | 8 | 10 | 11 | 999 |
| J8 | O8,1 | 7 | 5 | 7 | 10 | 9 | 999 | 7 | 8 | 5 | 7 | 5 | 6 | 999 | 5 | 4 |
| O8,2 | 10 | 5 | 999 | 5 | 10 | 7 | 7 | 9 | 999 | 11 | 9 | 6 | 5 | 9 | 10 |
| O8,3 | 4 | 10 | 11 | 6 | 7 | 5 | 8 | 5 | 7 | 11 | 10 | 7 | 4 | 8 | 7 |
| O8,4 | 5 | 11 | 7 | 11 | 9 | 7 | 999 | 10 | 11 | 8 | 6 | 10 | 5 | 9 | 12 |
| O8,5 | 999 | 4 | 9 | 10 | 5 | 11 | 11 | 12 | 11 | 7 | 6 | 9 | 7 | 12 | 999 |
| O8,6 | 6 | 11 | 12 | 4 | 10 | 4 | 7 | 12 | 10 | 6 | 999 | 4 | 11 | 5 | 6 |
| O8,7 | 10 | 999 | 5 | 12 | 9 | 4 | 4 | 8 | 4 | 8 | 5 | 10 | 7 | 12 | 6 |
| O8,8 | 5 | 9 | 6 | 6 | 8 | 10 | 9 | 999 | 8 | 8 | 8 | 6 | 5 | 10 | 6 |
| O8,9 | 10 | 5 | 10 | 4 | 999 | 10 | 11 | 5 | 7 | 5 | 12 | 4 | 7 | 11 | 8 |
| J9 | O9,1 | 9 | 6 | 999 | 12 | 7 | 9 | 10 | 9 | 7 | 8 | 9 | 9 | 6 | 5 | 999 |
| O9,2 | 10 | 9 | 10 | 5 | 5 | 9 | 5 | 11 | 12 | 8 | 5 | 999 | 7 | 6 | 8 |
| O9,3 | 6 | 8 | 8 | 7 | 9 | 11 | 999 | 8 | 5 | 8 | 6 | 6 | 5 | 8 | 12 |
| O9,4 | 7 | 9 | 7 | 999 | 11 | 4 | 6 | 8 | 8 | 999 | 5 | 7 | 6 | 999 | 9 |
| O9,5 | 4 | 10 | 8 | 4 | 12 | 11 | 8 | 5 | 10 | 5 | 4 | 8 | 10 | 12 | 9 |
| O9,6 | 8 | 6 | 5 | 10 | 8 | 11 | 11 | 11 | 6 | 6 | 4 | 6 | 9 | 10 | 4 |
| O9,7 | 11 | 10 | 12 | 7 | 8 | 999 | 10 | 8 | 9 | 6 | 7 | 6 | 6 | 10 | 10 |
| O9,8 | 999 | 6 | 11 | 9 | 8 | 11 | 12 | 6 | 11 | 7 | 8 | 11 | 4 | 9 | 999 |
| O9,9 | 5 | 8 | 999 | 11 | 12 | 7 | 4 | 6 | 9 | 6 | 999 | 8 | 7 | 6 | 9 |
| J10 | O10,1 | 11 | 999 | 4 | 12 | 8 | 12 | 9 | 10 | 999 | 8 | 11 | 9 | 999 | 5 | 5 |
| O10,2 | 8 | 5 | 8 | 9 | 5 | 5 | 10 | 9 | 7 | 999 | 8 | 6 | 10 | 4 | 5 |
| O10,3 | 6 | 6 | 4 | 11 | 999 | 5 | 10 | 6 | 8 | 7 | 4 | 7 | 5 | 6 | 8 |
| O10,4 | 10 | 6 | 9 | 11 | 7 | 10 | 6 | 5 | 11 | 999 | 11 | 6 | 8 | 7 | 999 |
| O10,5 | 999 | 6 | 10 | 5 | 6 | 7 | 10 | 9 | 4 | 6 | 9 | 7 | 4 | 4 | 7 |
| O10,6 | 11 | 11 | 8 | 4 | 6 | 4 | 999 | 999 | 11 | 9 | 6 | 6 | 8 | 999 | 6 |
| O10,7 | 9 | 8 | 9 | 6 | 9 | 7 | 11 | 7 | 7 | 12 | 8 | 9 | 7 | 4 | 11 |
| O10,8 | 10 | 8 | 999 | 5 | 4 | 12 | 6 | 12 | 999 | 8 | 7 | 11 | 7 | 5 | 6 |
| O10,9 | 999 | 9 | 8 | 6 | 6 | 8 | 10 | 12 | 10 | 11 | 4 | 7 | 8 | 5 | 999 |
| J11 | O10,1 | 9 | 6 | 6 | 11 | 6 | 8 | 10 | 9 | 999 | 7 | 10 | 10 | 6 | 11 | 6 |
| O11,2 | 7 | 5 | 12 | 11 | 999 | 12 | 6 | 7 | 4 | 7 | 999 | 999 | 6 | 8 | 999 |
| O11,3 | 12 | 7 | 999 | 9 | 9 | 10 | 8 | 8 | 6 | 12 | 8 | 12 | 7 | 8 | 11 |
| O11,4 | 6 | 7 | 9 | 6 | 9 | 999 | 6 | 7 | 7 | 11 | 10 | 10 | 999 | 5 | 5 |
| O11,5 | 10 | 6 | 10 | 999 | 8 | 9 | 999 | 7 | 5 | 999 | 11 | 8 | 11 | 5 | 6 |
| O11,6 | 7 | 10 | 12 | 6 | 5 | 4 | 4 | 10 | 8 | 4 | 5 | 10 | 7 | 6 | 999 |
| O11,7 | 12 | 999 | 5 | 8 | 5 | 4 | 10 | 10 | 5 | 5 | 5 | 12 | 11 | 7 | 9 |
| O11,8 | 7 | 5 | 7 | 10 | 999 | 10 | 7 | 8 | 5 | 7 | 5 | 6 | 9 | 999 | 4 |
| O11,9 | 9 | 6 | 10 | 12 | 7 | 9 | 10 | 9 | 7 | 8 | 9 | 9 | 6 | 5 | 8 |
| J12 | O12,1 | 8 | 7 | 999 | 10 | 7 | 5 | 9 | 10 | 999 | 7 | 6 | 11 | 999 | 7 | 9 |
| O12,2 | 11 | 9 | 11 | 8 | 6 | 6 | 10 | 8 | 6 | 9 | 9 | 5 | 8 | 8 | 999 |
| O12,3 | 999 | 6 | 7 | 10 | 11 | 8 | 5 | 999 | 8 | 11 | 4 | 4 | 9 | 6 | 5 |
| O12,4 | 9 | 6 | 4 | 4 | 10 | 4 | 9 | 7 | 11 | 7 | 999 | 6 | 4 | 4 | 5 |
| O12,5 | 5 | 10 | 4 | 10 | 10 | 5 | 11 | 5 | 12 | 9 | 999 | 8 | 5 | 11 | 8 |
| O12,6 | 8 | 7 | 11 | 6 | 5 | 999 | 6 | 5 | 10 | 7 | 6 | 4 | 11 | 6 | 999 |
| O12,7 | 5 | 10 | 8 | 7 | 11 | 4 | 5 | 10 | 8 | 5 | 9 | 8 | 9 | 4 | 10 |
| O12,8 | 10 | 5 | 999 | 5 | 10 | 7 | 7 | 9 | 7 | 11 | 9 | 6 | 999 | 9 | 10 |
| O12,9 | 8 | 5 | 8 | 9 | 5 | 5 | 10 | 9 | 7 | 6 | 8 | 6 | 10 | 4 | 5 |
| J13 | O13,1 | 11 | 9 | 7 | 9 | 5 | 4 | 4 | 10 | 8 | 999 | 4 | 7 | 8 | 6 | 8 |
| O13,2 | 999 | 5 | 5 | 8 | 11 | 9 | 9 | 999 | 9 | 8 | 6 | 999 | 11 | 8 | 7 |
| O13,3 | 9 | 6 | 8 | 7 | 9 | 7 | 8 | 11 | 10 | 7 | 6 | 7 | 11 | 11 | 10 |
| O13,4 | 9 | 999 | 8 | 6 | 6 | 8 | 6 | 11 | 7 | 5 | 11 | 5 | 7 | 999 | 5 |
| O13,5 | 9 | 8 | 10 | 4 | 999 | 6 | 12 | 11 | 7 | 5 | 8 | 8 | 5 | 9 | 8 |
| O13,6 | 8 | 12 | 11 | 999 | 11 | 4 | 11 | 9 | 11 | 999 | 5 | 8 | 8 | 10 | 999 |
| O13,7 | 12 | 999 | 8 | 11 | 8 | 12 | 10 | 7 | 999 | 12 | 4 | 5 | 5 | 8 | 999 |
| O13,8 | 6 | 6 | 4 | 11 | 999 | 5 | 10 | 6 | 8 | 7 | 4 | 999 | 5 | 6 | 8 |
| O13,9 | 6 | 8 | 8 | 999 | 9 | 11 | 5 | 8 | 5 | 999 | 6 | 6 | 5 | 8 | 12 |
| J14 | O14,1 | 999 | 9 | 10 | 7 | 7 | 6 | 7 | 10 | 12 | 9 | 11 | 5 | 6 | 999 | 7 |
| O14,2 | 5 | 6 | 4 | 10 | 10 | 999 | 12 | 999 | 5 | 9 | 10 | 7 | 999 | 10 | 7 |
| O14,3 | 6 | 12 | 999 | 6 | 7 | 8 | 999 | 11 | 10 | 7 | 7 | 8 | 7 | 999 | 5 |
| O14,4 | 8 | 999 | 12 | 8 | 9 | 9 | 6 | 5 | 999 | 11 | 9 | 11 | 8 | 7 | 999 |
| O14,5 | 11 | 8 | 8 | 11 | 999 | 10 | 5 | 6 | 7 | 4 | 999 | 10 | 6 | 8 | 7 |
| O14,6 | 9 | 6 | 999 | 12 | 5 | 9 | 4 | 999 | 6 | 999 | 5 | 7 | 9 | 12 | 11 |
| O14,7 | 999 | 6 | 9 | 11 | 7 | 10 | 999 | 5 | 11 | 11 | 11 | 6 | 8 | 999 | 11 |
| O14,8 | 7 | 9 | 7 | 999 | 11 | 4 | 6 | 8 | 8 | 8 | 5 | 999 | 6 | 11 | 9 |
| O14,9 | 5 | 999 | 7 | 11 | 9 | 7 | 7 | 10 | 999 | 8 | 6 | 10 | 999 | 9 | 12 |
| J15 | O15,1 | 8 | 9 | 9 | 8 | 11 | 999 | 9 | 9 | 8 | 8 | 6 | 7 | 7 | 5 | 999 |
| O15,2 | 5 | 5 | 999 | 6 | 10 | 11 | 9 | 11 | 6 | 8 | 999 | 9 | 5 | 9 | 8 |
| O15,3 | 999 | 10 | 10 | 5 | 6 | 6 | 11 | 999 | 11 | 9 | 11 | 11 | 7 | 7 | 10 |
| O15,4 | 12 | 7 | 8 | 9 | 8 | 10 | 7 | 9 | 5 | 999 | 9 | 7 | 999 | 8 | 999 |
| O15,5 | 9 | 999 | 12 | 6 | 999 | 7 | 12 | 11 | 10 | 11 | 11 | 999 | 8 | 4 | 5 |
| O15,6 | 8 | 6 | 10 | 5 | 6 | 7 | 999 | 999 | 4 | 6 | 9 | 7 | 4 | 4 | 999 |
| O15,7 | 4 | 10 | 999 | 4 | 12 | 11 | 8 | 5 | 10 | 5 | 4 | 8 | 999 | 12 | 9 |
| O15,8 | 8 | 4 | 999 | 10 | 5 | 999 | 11 | 12 | 11 | 7 | 999 | 9 | 7 | 12 | 11 |
| O15,9 | 10 | 4 | 11 | 999 | 10 | 8 | 5 | 10 | 999 | 11 | 7 | 9 | 9 | 6 | 6 |
| J16 | O16,1 | 999 | 6 | 5 | 10 | 999 | 11 | 11 | 11 | 6 | 6 | 4 | 6 | 9 | 10 | 4 |
| O16,2 | 11 | 11 | 8 | 4 | 6 | 4 | 999 | 7 | 11 | 9 | 6 | 6 | 8 | 999 | 6 |
| O16,3 | 10 | 6 | 999 | 10 | 12 | 5 | 6 | 9 | 8 | 4 | 8 | 999 | 9 | 8 | 7 |
| O16,4 | 999 | 9 | 11 | 10 | 10 | 8 | 9 | 11 | 7 | 999 | 6 | 4 | 4 | 7 | 999 |
| O16,5 | 9 | 999 | 7 | 6 | 4 | 999 | 6 | 10 | 999 | 7 | 8 | 12 | 6 | 6 | 11 |
| O16,6 | 6 | 6 | 10 | 999 | 5 | 8 | 4 | 9 | 7 | 8 | 7 | 9 | 999 | 4 | 5 |
| O16,7 | 6 | 11 | 12 | 4 | 10 | 4 | 7 | 999 | 10 | 6 | 12 | 4 | 11 | 5 | 6 |
| O16,8 | 8 | 8 | 999 | 8 | 999 | 8 | 7 | 11 | 9 | 6 | 999 | 8 | 6 | 999 | 8 |
| O16,9 | 9 | 7 | 999 | 6 | 10 | 8 | 999 | 10 | 8 | 5 | 999 | 8 | 5 | 6 | 5 |
| J17 | O17,1 | 11 | 999 | 11 | 7 | 999 | 11 | 10 | 8 | 10 | 5 | 10 | 5 | 11 | 9 | 999 |
| O17,2 | 10 | 8 | 5 | 12 | 9 | 4 | 4 | 999 | 4 | 8 | 5 | 999 | 999 | 12 | 6 |
| O17,3 | 999 | 10 | 12 | 7 | 8 | 9 | 10 | 8 | 9 | 999 | 7 | 6 | 6 | 999 | 10 |
| O17,4 | 9 | 8 | 9 | 999 | 9 | 7 | 999 | 7 | 7 | 12 | 8 | 999 | 7 | 4 | 11 |
| O17,5 | 8 | 999 | 11 | 10 | 5 | 999 | 6 | 999 | 5 | 6 | 5 | 7 | 5 | 9 | 999 |
| O17,6 | 999 | 7 | 7 | 9 | 999 | 8 | 6 | 10 | 12 | 7 | 5 | 8 | 999 | 7 | 6 |
| O17,7 | 10 | 9 | 999 | 7 | 8 | 7 | 12 | 5 | 999 | 6 | 8 | 11 | 5 | 7 | 999 |
| O17,8 | 999 | 5 | 8 | 5 | 10 | 6 | 999 | 5 | 10 | 6 | 9 | 999 | 4 | 10 | 9 |
| O17,9 | 7 | 8 | 7 | 8 | 5 | 8 | 5 | 11 | 9 | 999 | 999 | 6 | 7 | 9 | 10 |
| J18 | O18,1 | 12 | 11 | 10 | 999 | 7 | 4 | 7 | 8 | 5 | 6 | 10 | 8 | 8 | 999 | 6 |
| O18,2 | 8 | 999 | 11 | 10 | 5 | 5 | 6 | 999 | 5 | 6 | 5 | 7 | 999 | 9 | 5 |
| O18,3 | 999 | 11 | 10 | 12 | 9 | 11 | 9 | 5 | 999 | 11 | 7 | 6 | 6 | 10 | 999 |
| O18,4 | 5 | 7 | 12 | 8 | 999 | 9 | 9 | 5 | 10 | 5 | 999 | 7 | 7 | 10 | 8 |
| O18,5 | 6 | 6 | 999 | 9 | 8 | 11 | 12 | 6 | 999 | 7 | 8 | 11 | 4 | 999 | 12 |
| O18,6 | 10 | 8 | 6 | 5 | 4 | 999 | 6 | 12 | 8 | 8 | 7 | 999 | 7 | 5 | 6 |
| O18,7 | 999 | 4 | 11 | 5 | 12 | 5 | 7 | 999 | 5 | 10 | 9 | 7 | 9 | 8 | 7 |
| O18,8 | 11 | 9 | 6 | 8 | 5 | 4 | 5 | 8 | 7 | 11 | 7 | 10 | 8 | 999 | 10 |
| O18,9 | 5 | 9 | 6 | 999 | 8 | 10 | 9 | 12 | 8 | 999 | 8 | 6 | 5 | 10 | 6 |
| J19 | O19,1 | 7 | 999 | 10 | 5 | 6 | 6 | 11 | 5 | 11 | 9 | 11 | 999 | 7 | 7 | 10 |
| O19,2 | 10 | 9 | 11 | 10 | 10 | 999 | 9 | 11 | 999 | 6 | 6 | 4 | 4 | 7 | 5 |
| O19,3 | 7 | 9 | 999 | 8 | 999 | 10 | 9 | 9 | 10 | 12 | 11 | 5 | 999 | 10 | 5 |
| O19,4 | 9 | 10 | 12 | 7 | 5 | 8 | 999 | 6 | 6 | 999 | 5 | 6 | 12 | 9 | 999 |
| O19,5 | 9 | 9 | 999 | 12 | 4 | 7 | 6 | 9 | 10 | 12 | 999 | 8 | 10 | 11 | 12 |
| O19,6 | 10 | 999 | 10 | 4 | 7 | 10 | 11 | 999 | 7 | 5 | 12 | 999 | 7 | 11 | 8 |
| O19,7 | 999 | 8 | 9 | 11 | 12 | 999 | 4 | 6 | 9 | 6 | 11 | 8 | 7 | 6 | 9 |
| O19,8 | 11 | 9 | 8 | 6 | 6 | 8 | 10 | 999 | 10 | 999 | 4 | 7 | 8 | 5 | 999 |
| O19,9 | 12 | 11 | 9 | 999 | 9 | 10 | 6 | 5 | 11 | 5 | 11 | 999 | 9 | 999 | 6 |
| J20 | O20,1 | 11 | 6 | 999 | 12 | 8 | 12 | 9 | 10 | 7 | 8 | 999 | 9 | 10 | 5 | 5 |
| O20,2 | 10 | 9 | 999 | 5 | 5 | 9 | 5 | 11 | 12 | 8 | 999 | 11 | 999 | 6 | 8 |
| O20,3 | 999 | 10 | 11 | 6 | 7 | 999 | 8 | 5 | 7 | 11 | 10 | 7 | 4 | 8 | 7 |
| O20,4 | 7 | 11 | 999 | 10 | 12 | 8 | 12 | 999 | 12 | 8 | 6 | 9 | 7 | 4 | 999 |
| O20,5 | 4 | 9 | 8 | 11 | 8 | 9 | 10 | 8 | 4 | 6 | 4 | 10 | 12 | 10 | 7 |
| O20,6 | 10 | 999 | 11 | 999 | 12 | 5 | 999 | 9 | 8 | 4 | 999 | 10 | 9 | 8 | 999 |
| O20,7 | 5 | 6 | 4 | 10 | 10 | 5 | 12 | 11 | 5 | 9 | 10 | 7 | 6 | 10 | 7 |
| O20,8 | 999 | 7 | 8 | 9 | 999 | 6 | 5 | 11 | 8 | 999 | 9 | 8 | 8 | 999 | 11 |
| O20,9 | 5 | 999 | 6 | 8 | 7 | 999 | 5 | 8 | 8 | 4 | 8 | 999 | 8 | 4 | 12 |
| J21 | O21,1 | 8 | 7 | 999 | 10 | 7 | 5 | 9 | 10 | 999 | 7 | 6 | 11 | 999 | 7 | 9 |
| O21,2 | 11 | 9 | 7 | 999 | 5 | 4 | 4 | 999 | 8 | 9 | 999 | 7 | 8 | 6 | 999 |
| O21,3 | 10 | 999 | 10 | 7 | 999 | 6 | 999 | 10 | 12 | 9 | 11 | 5 | 6 | 999 | 7 |
| O21,4 | 8 | 9 | 999 | 8 | 11 | 6 | 9 | 9 | 8 | 8 | 6 | 999 | 7 | 5 | 5 |
| O21,5 | 8 | 6 | 5 | 10 | 8 | 11 | 999 | 11 | 6 | 999 | 4 | 6 | 9 | 10 | 4 |
| O21,6 | 999 | 8 | 11 | 7 | 5 | 11 | 10 | 999 | 10 | 5 | 10 | 5 | 999 | 9 | 6 |
| O21,7 | 12 | 11 | 999 | 6 | 999 | 4 | 7 | 8 | 5 | 6 | 10 | 8 | 8 | 9 | 999 |
| O21,8 | 7 | 10 | 10 | 5 | 6 | 6 | 11 | 999 | 11 | 9 | 999 | 11 | 7 | 7 | 10 |
| O21,9 | 11 | 6 | 4 | 12 | 8 | 999 | 9 | 10 | 7 | 8 | 11 | 9 | 10 | 5 | 5 |
| J22 | O22,1 | 11 | 999 | 11 | 8 | 6 | 6 | 10 | 8 | 999 | 9 | 9 | 5 | 8 | 999 | 12 |
| O22,2 | 999 | 5 | 5 | 999 | 11 | 9 | 9 | 999 | 9 | 8 | 6 | 999 | 11 | 8 | 7 |
| O22,3 | 5 | 6 | 4 | 10 | 999 | 5 | 12 | 11 | 5 | 9 | 10 | 7 | 999 | 10 | 7 |
| O22,4 | 5 | 5 | 8 | 6 | 10 | 999 | 9 | 11 | 999 | 8 | 8 | 9 | 5 | 9 | 8 |
| O22,5 | 11 | 999 | 999 | 4 | 6 | 4 | 10 | 7 | 11 | 9 | 999 | 6 | 8 | 11 | 6 |
| O22,6 | 999 | 8 | 5 | 12 | 9 | 4 | 4 | 8 | 4 | 999 | 5 | 10 | 7 | 999 | 6 |
| O22,7 | 8 | 999 | 11 | 10 | 5 | 999 | 6 | 10 | 5 | 6 | 5 | 7 | 5 | 9 | 5 |
| O22,8 | 10 | 9 | 999 | 10 | 10 | 8 | 999 | 11 | 7 | 6 | 6 | 4 | 4 | 7 | 5 |
| O22,9 | 999 | 9 | 10 | 5 | 5 | 9 | 5 | 999 | 12 | 8 | 5 | 999 | 7 | 6 | 8 |
| J23 | O23,1 | 6 | 6 | 7 | 10 | 11 | 8 | 5 | 999 | 8 | 11 | 4 | 4 | 9 | 6 | 999 |
| O23,2 | 9 | 999 | 8 | 999 | 9 | 7 | 8 | 11 | 10 | 7 | 999 | 7 | 11 | 11 | 10 |
| O23,3 | 6 | 12 | 999 | 6 | 7 | 8 | 999 | 11 | 10 | 7 | 7 | 8 | 999 | 999 | 5 |
| O23,4 | 7 | 999 | 10 | 5 | 999 | 6 | 11 | 5 | 999 | 9 | 11 | 11 | 7 | 999 | 10 |
| O23,5 | 999 | 6 | 11 | 10 | 12 | 5 | 6 | 999 | 8 | 4 | 8 | 10 | 9 | 8 | 999 |
| O23,6 | 11 | 10 | 999 | 7 | 8 | 9 | 999 | 8 | 9 | 6 | 7 | 999 | 6 | 10 | 10 |
| O23,7 | 8 | 999 | 10 | 12 | 9 | 11 | 9 | 5 | 11 | 11 | 7 | 6 | 6 | 999 | 5 |
| O23,8 | 7 | 9 | 10 | 8 | 999 | 10 | 9 | 9 | 10 | 12 | 11 | 5 | 8 | 10 | 5 |
| O23,9 | 999 | 10 | 11 | 6 | 7 | 5 | 8 | 5 | 7 | 999 | 10 | 7 | 4 | 8 | 999 |
| J24 | O24,1 | 9 | 6 | 4 | 999 | 10 | 999 | 9 | 7 | 11 | 7 | 999 | 6 | 4 | 4 | 5 |
| O24,2 | 9 | 999 | 8 | 6 | 6 | 8 | 6 | 999 | 7 | 5 | 11 | 5 | 999 | 8 | 5 |
| O24,3 | 8 | 12 | 999 | 8 | 9 | 9 | 6 | 5 | 7 | 11 | 9 | 11 | 8 | 7 | 999 |
| O24,4 | 999 | 7 | 8 | 9 | 8 | 10 | 7 | 9 | 5 | 999 | 9 | 999 | 6 | 8 | 6 |
| O24,5 | 10 | 9 | 11 | 10 | 10 | 8 | 999 | 11 | 7 | 6 | 6 | 4 | 4 | 7 | 5 |
| O24,6 | 9 | 8 | 9 | 999 | 9 | 7 | 11 | 7 | 7 | 12 | 8 | 9 | 999 | 4 | 11 |
| O24,7 | 5 | 999 | 12 | 8 | 6 | 9 | 9 | 5 | 999 | 5 | 5 | 7 | 7 | 10 | 999 |
| O24,8 | 9 | 10 | 12 | 7 | 5 | 999 | 9 | 6 | 6 | 12 | 999 | 6 | 12 | 999 | 7 |
| O24,9 | 999 | 11 | 11 | 10 | 12 | 8 | 12 | 999 | 12 | 8 | 6 | 9 | 7 | 4 | 11 |
| J25 | O25,1 | 5 | 10 | 4 | 10 | 999 | 5 | 11 | 5 | 12 | 9 | 8 | 999 | 5 | 11 | 8 |
| O25,2 | 9 | 8 | 999 | 4 | 6 | 6 | 12 | 999 | 7 | 5 | 999 | 8 | 5 | 9 | 8 |
| O25,3 | 11 | 8 | 8 | 999 | 8 | 10 | 5 | 6 | 999 | 4 | 6 | 10 | 6 | 999 | 7 |
| O25,4 | 9 | 999 | 12 | 6 | 6 | 7 | 999 | 11 | 10 | 999 | 11 | 8 | 8 | 4 | 999 |
| O25,5 | 9 | 8 | 999 | 6 | 4 | 999 | 6 | 10 | 7 | 7 | 8 | 12 | 999 | 6 | 11 |
| O25,6 | 999 | 8 | 11 | 10 | 999 | 5 | 6 | 10 | 5 | 6 | 999 | 7 | 5 | 9 | 5 |
| O25,7 | 6 | 6 | 11 | 999 | 8 | 11 | 12 | 6 | 11 | 999 | 8 | 11 | 4 | 9 | 12 |
| O25,8 | 9 | 9 | 10 | 12 | 4 | 7 | 6 | 999 | 999 | 12 | 11 | 8 | 10 | 999 | 12 |
| O25,9 | 4 | 999 | 8 | 11 | 8 | 9 | 999 | 8 | 4 | 6 | 4 | 10 | 12 | 10 | 999 |
| J26 | O26,1 | 8 | 7 | 11 | 6 | 999 | 10 | 6 | 5 | 10 | 7 | 999 | 4 | 11 | 6 | 7 |
| O26,2 | 999 | 12 | 11 | 7 | 11 | 4 | 11 | 9 | 999 | 4 | 5 | 8 | 999 | 10 | 11 |
| O26,3 | 9 | 6 | 999 | 12 | 5 | 9 | 4 | 6 | 6 | 7 | 5 | 999 | 9 | 12 | 999 |
| O26,4 | 8 | 999 | 10 | 5 | 6 | 999 | 10 | 9 | 4 | 999 | 9 | 7 | 4 | 4 | 7 |
| O26,5 | 6 | 6 | 10 | 999 | 5 | 8 | 4 | 999 | 7 | 8 | 7 | 9 | 10 | 999 | 5 |
| O26,6 | 999 | 7 | 7 | 9 | 6 | 8 | 6 | 10 | 999 | 7 | 5 | 8 | 8 | 999 | 6 |
| O26,7 | 10 | 8 | 999 | 5 | 4 | 12 | 6 | 999 | 8 | 8 | 7 | 999 | 7 | 5 | 999 |
| O26,8 | 10 | 999 | 10 | 4 | 999 | 10 | 11 | 5 | 7 | 999 | 12 | 4 | 7 | 11 | 8 |
| O26,9 | 10 | 6 | 11 | 999 | 12 | 5 | 999 | 9 | 8 | 4 | 8 | 10 | 999 | 999 | 7 |
| J27 | O27,1 | 5 | 10 | 999 | 7 | 11 | 4 | 5 | 10 | 8 | 5 | 999 | 8 | 9 | 4 | 10 |
| O27,2 | 12 | 7 | 8 | 11 | 8 | 999 | 10 | 999 | 7 | 12 | 4 | 5 | 5 | 8 | 999 |
| O27,3 | 999 | 6 | 9 | 999 | 7 | 10 | 6 | 5 | 11 | 999 | 11 | 6 | 8 | 7 | 11 |
| O27,4 | 4 | 999 | 8 | 4 | 12 | 11 | 8 | 5 | 10 | 5 | 4 | 999 | 10 | 999 | 9 |
| O27,5 | 6 | 11 | 12 | 4 | 999 | 4 | 7 | 12 | 999 | 6 | 12 | 4 | 999 | 5 | 6 |
| O27,6 | 10 | 9 | 999 | 7 | 8 | 7 | 999 | 5 | 10 | 6 | 999 | 11 | 5 | 7 | 999 |
| O27,7 | 999 | 4 | 11 | 5 | 12 | 5 | 7 | 999 | 5 | 10 | 9 | 7 | 9 | 999 | 7 |
| O27,8 | 5 | 8 | 9 | 999 | 12 | 7 | 4 | 6 | 9 | 999 | 11 | 8 | 7 | 6 | 9 |
| O27,9 | 5 | 999 | 4 | 10 | 10 | 999 | 12 | 11 | 999 | 9 | 10 | 7 | 999 | 10 | 7 |
| J28 | O28,1 | 10 | 5 | 6 | 5 | 999 | 7 | 7 | 9 | 7 | 11 | 9 | 999 | 5 | 9 | 10 |
| O28,2 | 999 | 6 | 4 | 11 | 999 | 5 | 10 | 6 | 8 | 7 | 4 | 7 | 5 | 6 | 999 |
| O28,3 | 7 | 9 | 999 | 8 | 11 | 4 | 999 | 8 | 8 | 8 | 5 | 7 | 6 | 999 | 9 |
| O28,4 | 8 | 999 | 9 | 10 | 5 | 11 | 11 | 12 | 999 | 7 | 6 | 9 | 7 | 12 | 11 |
| O28,5 | 8 | 8 | 7 | 999 | 6 | 8 | 7 | 11 | 9 | 999 | 9 | 8 | 999 | 9 | 8 |
| O28,6 | 999 | 5 | 8 | 5 | 10 | 999 | 5 | 5 | 10 | 6 | 999 | 11 | 4 | 10 | 9 |
| O28,7 | 11 | 9 | 999 | 8 | 5 | 4 | 999 | 999 | 7 | 11 | 7 | 10 | 8 | 11 | 999 |
| O28,8 | 7 | 999 | 8 | 6 | 999 | 8 | 10 | 12 | 10 | 11 | 4 | 999 | 8 | 5 | 9 |
| O28,9 | 11 | 7 | 8 | 999 | 9 | 6 | 5 | 11 | 8 | 999 | 9 | 8 | 8 | 999 | 11 |
| J29 | O29,1 | 8 | 5 | 999 | 9 | 5 | 5 | 10 | 999 | 7 | 6 | 8 | 999 | 10 | 4 | 5 |
| O29,2 | 6 | 999 | 8 | 7 | 9 | 11 | 5 | 8 | 999 | 8 | 6 | 6 | 5 | 8 | 999 |
| O29,3 | 5 | 11 | 7 | 999 | 9 | 999 | 7 | 10 | 11 | 8 | 6 | 10 | 999 | 9 | 12 |
| O29,4 | 999 | 4 | 11 | 9 | 10 | 8 | 999 | 999 | 6 | 11 | 999 | 9 | 9 | 6 | 6 |
| O29,5 | 9 | 7 | 999 | 6 | 10 | 8 | 12 | 10 | 8 | 999 | 11 | 8 | 5 | 999 | 5 |
| O29,6 | 7 | 8 | 7 | 8 | 999 | 8 | 5 | 999 | 9 | 8 | 12 | 6 | 999 | 9 | 10 |
| O29,7 | 5 | 999 | 6 | 6 | 8 | 10 | 999 | 12 | 8 | 8 | 8 | 999 | 5 | 10 | 6 |
| O29,8 | 12 | 999 | 9 | 11 | 9 | 10 | 6 | 5 | 999 | 5 | 11 | 8 | 9 | 999 | 6 |
| O29,9 | 5 | 7 | 999 | 8 | 7 | 999 | 5 | 8 | 8 | 4 | 8 | 8 | 8 | 4 | 999 |
| J30 | O30,1 | 999 | 7 | 11 | 3 | 999 | 6 | 4 | 6 | 4 | 10 | 999 | 4 | 10 | 7 | 6 |
| O30,2 | 10 | 10 | 3 | 999 | 8 | 4 | 9 | 999 | 6 | 7 | 10 | 7 | 4 | 8 | 3 |
| O30,3 | 9 | 6 | 4 | 5 | 6 | 999 | 3 | 7 | 9 | 5 | 3 | 3 | 4 | 999 | 5 |
| O30,4 | 9 | 999 | 6 | 5 | 9 | 8 | 8 | 3 | 999 | 5 | 3 | 999 | 8 | 6 | 3 |
| O30,5 | 6 | 8 | 4 | 999 | 6 | 3 | 5 | 999 | 5 | 9 | 5 | 10 | 7 | 999 | 6 |
| O30,6 | 10 | 5 | 7 | 7 | 6 | 999 | 6 | 10 | 11 | 5 | 999 | 9 | 10 | 6 | 5 |
| O30,7 | 7 | 999 | 11 | 3 | 999 | 7 | 7 | 4 | 999 | 5 | 6 | 8 | 7 | 9 | 5 |
| O30,8 | 8 | 5 | 999 | 8 | 6 | 7 | 3 | 7 | 4 | 8 | 4 | 9 | 999 | 6 | 4 |
| O30,9 | 999 | 11 | 6 | 11 | 5 | 11 | 999 | 10 | 10 | 9 | 8 | 7 | 4 | 4 | 999 |