PhuTAri 3-Cell - Hard

97   20   90365   32707071661764557915   53   273657568751879650   403

114818379555230   485   719147156254085   87079   195358

135680301146   5   47   143

$$
\begin{aligned}
5 &= 5 \\
20 &= 5 \times 2 \times 2 \\
47 &= 47 \\
53 &= 53 \\
97 &= 97 \\
143 &= 13 \times 11 \\
403 &= 31 \times 13 \\
485 &= 97 \times 5 \\
87079 &= 53 \times 53 \times 31 \\
90365 &= 53 \times 31 \times 11 \times 5 \\
195358 &= 97 \times 53 \times 19 \times 2 \\
135680301146 &= 53 \times 53 \times 47 \times 47 \times 29 \times 29 \times 13 \times 2 \\
114818379555230 &= 97 \times 97 \times 97 \times 53 \times 31 \times 31 \times 19 \times 13 \times 5 \times 2 \\
719147156254085 &= 97 \times 53 \times 53 \times 47 \times 31 \times 31 \times 31 \times 29 \times 13 \times 5 \\
273657568751879650 &= 97 \times 97 \times 53 \times 53 \times 47 \times 31 \times 29 \times 29 \times 13 \times 13 \times 5 \times 5 \times 2 \\
32707071661764557915 &= 97 \times 97 \times 97 \times 53 \times 53 \times 53 \times 47 \times 29 \times 19 \times 13 \times 13 \times 11 \times 5
\end{aligned}
$$