

\times 1 \rightarrow 1
 \times 1, 2 \rightarrow 2
 \times 1, 3 \rightarrow 2
 \times 1, 2, 4 \rightarrow 3
 \times 1, 5 \rightarrow 2
 \times 1, 2, 3, 6 \rightarrow 4

Count is 0; \therefore We're looking for a loop
 $7 - i = 0$ \rightarrow N
 $i = 2, \dots, M$

