

- N integers from $1..N$
- $1 \leq N \leq 15$
- $A[i] \cdot i \neq 0$ OR $i \cdot A[i] = 0$
- return total num of combos of nums that satisfy above.

$N=1$

$$\begin{array}{c} 1 \\ i=1 \\ x=1 \end{array} \rightarrow 1$$

$N=2$

$$\begin{array}{r} 0 \ 0 \\ \times 1 \ 2 \\ i \ 1 \ 2 \\ \hline 0 \ 0 \end{array} \rightarrow T \quad \begin{array}{r} 1 \ 0 \\ \times 2 \ 1 \\ i \ 1 \ 2 \\ \hline 0 \ 1 \end{array}$$

$N=3$

$\begin{array}{r} 0 \ 0 \ 0 \\ 1 \ 2 \ 3 \\ 1 \ 2 \ 3 \\ \hline 0 \ 0 \ 0 \\ \checkmark \end{array}$	$\begin{array}{r} 0 \ - \ - \\ 1 \ 3 \ 2 \\ 1 \ 2 \ 3 \\ \hline 0 \ - \ - \end{array}$	$\begin{array}{r} - \ 0 \ 0 \\ 2 \ 1 \ 3 \\ 1 \ 2 \ 3 \\ \hline 0 \ - \ 0 \\ \checkmark \end{array}$	$\begin{array}{r} - \ - \ 0 \\ 2 \ 3 \ 1 \\ 1 \ 2 \ 3 \\ \hline 0 \ - \ - \end{array}$	$\begin{array}{r} - \ 0 \ - \\ 3 \ 1 \ 2 \\ 1 \ 2 \ 3 \\ \hline 0 \ - \ - \end{array}$	$\begin{array}{r} - \ 0 \ 0 \\ 3 \ 2 \ 1 \\ 1 \ 2 \ 3 \\ \hline 0 \ 0 \ - \\ \checkmark \end{array}$
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$\rightarrow 3$

