Snaptorial

x seconds after Thanos snapped his fingers to begin the decimation, the number of people who became the vacuum-cleaner fodder is $x!$ i.e. the factorial of x.

Given the number of seconds passed since the snap, print the number of people decimated.

Input Format

The input will consist of a single integer t which is the time passed (in seconds) since the snap.

Constraints

$1 \leq t \leq 12$

Output Format

The output will consist of a single integer which is the number of people dead after t seconds.

Sample Input 0

```
5
```

Sample Output 0

```
120
```

Explanation 0

Since $5! = 120$, the number of people dead 5 seconds after the snap is 120.