Project Euler #5: Smallest multiple

This problem is a programming version of Problem 5 from projecteuler.net

2520 is the smallest number that can be divided by each of the numbers from 1 to 10 without any remainder.
What is the smallest positive number that is evenly divisible(divisible with no remainder) by all of the numbers from 1 to N?

Input Format

First line contains T that denotes the number of test cases. This is followed by T lines, each containing an integer, N.

Constraints

- $1 \leqslant T \leqslant 10$
- $1 \leqslant N \leqslant 40$

Output Format

Print the required answer for each test case.

Sample Input

```
2
3
10
```

Sample Output

```
6
2520
```

Explanation

- You can check 6 is divisible by each of $\{1, 2, 3\}$, giving quotient of $\{6, 3, 2\}$ respectively.
- You can check 2520 is divisible by each of $\{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$ giving quotient of $\{2520, 1260, 840, 630, 504, 420, 360, 315, 280, 252\}$ respectively.