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Project Euler #5: Smallest multiple



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Problem

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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

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

Output Format

Print the required answer for each test case.

Sample Input 0

```
2
3
10
```

Sample Output 0

```
6
2520
```

Explanation 0

- 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.

[f](#) [t](#) [in](#)Submissions: [15855](#)

Max Score: 100

Difficulty: Medium

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Current Buffer (saved locally, editable)

Java 8



```
1 import java.io.*;
```