



5

LIVE EVENTS

Code Chronicles

Sep 10, 2018, 06:00 PM IST - Sep 13, 2018, 12:00 AM IST

[INSTRUCTIONS](#) [PROBLEMS](#) [SUBMISSIONS](#) [JUDGE](#)[← Problems](#) / [Lost World Of Solitaire](#)

Lost World Of Solitaire

Max. Marks: 30

The challenge is over and this problem has been moved to practice area. You can either submit your solution here or [Go to Practice Area](#). Also further submissions won't affect the leaderboard.

[PROBLEM](#) [EDITORIAL](#) [MY SUBMISSIONS](#)

Neville found a magical deck of cards numbered from 2 to 1,00,000. Neville will pick up a card and he has to tell the **number of ways** he can make that number printed on card by using their prime factors else he will die. He doesn't know how to find this. Being Neville's friend you have to help her in finding out number of permutations.

Input Format

First line of the input consists of an integer T (no. of testcases).
Each testcase contains a single integer N .

Constraints

$1 \leq T \leq 100000$
 $1 < N \leq 100000$

Output Format

Print a single integer (number of ways she can make a number by their prime factors) for each testcase.

SAMPLE INPUT



```
3
12
6
29
```

SAMPLE OUTPUT



```
3
2
1
```

Explanation

For first testcase, $N=12$; prime factors= $2,2,3$

No of ways:

1. $2*2*3$



2. 2*3*2

3. 3*2*2

Hence, 3 ways are possible

Time Limit: 5.0 sec(s) for each input file.

Memory Limit: 256 MB

Source Limit: 1024 KB

Marking Scheme: Marks are awarded if any testcase passes.

Allowed Languages: Bash, C, C++, C++14, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, Java 8, JavaScript(Rhino), JavaScript(Node.js), Julia, Kotlin, Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python 3, R(RScript), Racket, Ruby, Rust, Scala, Swift, Swift-4.1, Visual Basic

5

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CODE EDITOR

Enter your code or [Upload your code](#) as file.

Save

Bash (GNU bash, version 4.3 ▾)



```
1 # Sample bash code
2
```

1:1

☒ Provide custom input

COMPILE & TEST

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