Searching_2

Description

Find the count of numbers less than N having exactly 9 divisors

1<=T<=1000,1<=N<=10^12

Input

First Line of Input contains the number of testcases. Only Line of each testcase contains the number of members N in the rival gang.

Output

Print the desired output.

Sample Input 1

```
2
40
5
```

Sample Output 1

```
1
0
```

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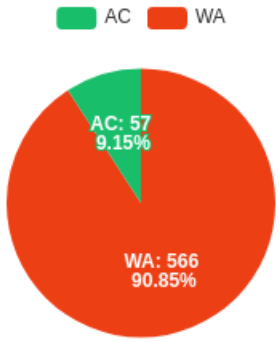
Information

ID	4
Time Limit	1000MS
Memory Limit	256MB
Created By	root
Level	Low
Tags	Show

Statistic Details



Language: C++ Theme: Solarized Light

```
from math import sqrt
def g(n):
    lim = int(sqrt(n))
    a = [0] * (lim-2)
    for i in range(lim-2):
        if a[i] == 0:
            j = i + 2
            k = 2
            while k*j < lim:
                a[k*j-2] = 1
                k += 1
    c = 0
    for i in range(0, lim-2):
        if a[i] == 0:
            if pow(i+2, 8) <= n:
                c += 1
            for j in range(i+1, lim-2):
                if a[j] == 0:
                    if pow((i+2)*(j+2), 2) <= n:
                        c += 1
                    else:
                        break
    return c
n = int(input())
array = []
for i in range(n):
    array.append(int(input()))
```

Submit