

Fair in coinsland !!

In the country of Numberia, there is a city called Coinsland. Today there is a fair in the city.

Abhishek is very excited about it. He visits a stall that sells toys with price ranging from 1 to n (inclusive) (all).

He wants to buy all of them. But sadly he has coins of denomination 3 in his left pocket and coins of 5 in his right pocket.

To buy a particular toy, he decides to use only a single type of coin.

As you are with him, you have to help him to know exactly how many toys he can purchase.

NOTE : Number of coins are infinite. Keep in mind that there is only one toy of each price.

Input

First line of the input consists of number of test cases T (≤ 15). Next T lines contain numbers n.

Output

Output should contain a number which is the total number of toys which Abhishek can buy.

CONSTRAINTS :

$n \leq 10^9$

Example

Input:

1
20

Output:

9