

Problem L

Sum of Floor(N/ij)

Time Limit: 4 seconds

You are given positive integer N . Find the value

$$\sum_{i=1}^N \sum_{j=1}^N \left\lfloor \frac{N}{ij} \right\rfloor.$$

You are given T test cases, so find the answer for each.

Input

The input is given in the following format:

```
 $T$ 
case1
case2
⋮
case $T$ 
```

case _{i} represents the i -th test case. Each test case is given in the following format:

N

- $1 \leq T \leq 100$
- $1 \leq N \leq 10^9$
- All input values are integers.

Output

Output T lines. On the i -th line ($1 \leq i \leq T$), output the answer to the i -th test case.

Sample Input	Sample Output
10	1
1	53
10	1471
100	29425
1000	496623
10000	7518850
100000	106030594
1000000	1421760251
10000000	18362473634
100000000	230375375227
1000000000	