Smart Matrix Sum

Given an integer N, construct a matrix of size NxN with values as arr[i][j]=floor(i/j). Find the sum of the elements of the constructed matrix. You should assume 1-based indexes to construct the matrix.

Input Format

First line of input contains T - number of test cases. Its followed by T lines, each contains a single integer N.

Constraints

30 points
1 <= T <= 100
1 <= N <= 100

70 points
1 <= T <= 1000
1 <= N <= 10^4

Output Format

For each test case, print the sum of the elements of the constructed matrix, separated by newline.

Sample Input 0

```
2
4
5
```

Sample Output 0

```
17
27
```

Explanation 0

Test Case 1
The matrix will look as follows, which sums upto 17.
1 0 0 0
2 1 0 0
3 1 1 0
4 2 1 1

Test Case 2
The matrix will look as follows, which sums upto 27.
1 0 0 0 0
2 1 0 0 0
3 1 1 0 0
4 2 1 1 0
5 2 1 1 1