# Smart Series

Given an integer N, find the maximum sum that you can get from the following series: 1*2 - 2*3 + 3*4 - 4*5 .... K*(K+1), where K<=N.

**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 <= $10^5$
1 <= N <= $10^9$

**Output Format**

For each test case, print the result, separated by newline.

**Sample Input 0**

```
2
3
5
```

**Sample Output 0**

```
8
18
```

**Explanation 0**

Self Explanatory