Compute The Computation

Let **P=C(N,0)-C(N,1)+C(N,2)-C(N,3)+…………….......C(N,N)**

You are given **N**. You have to find the value of **P**.

<u>Input:</u>

Input starts with an integer **T**, denoting the number of test cases. Each test case contains an integer **N**.

<u>Constraints:</u>

$0<=N<=1000000$

$1<=T<=1000000$

<u>Output:</u>

For each test case, print the value of **P**.

Sample Input	Sample Output
1 4	0

Note: use faster i/o method.

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