

# Amz Rock

To many people in many cultures, music is an important part of their way of life.

AmzMohammad is a fan of rock music. and he have n rock tracks (labelled from 1 to n) now he wants to select a playlist.

in his opinion a good playlist is one that have no two successive tracks.

in how many ways?

## Input

first line = number of test cases

each testcase in an integer n(number of tracks)

## Output

Output number of good playlists he can make.

answer is less than 1000000000. it is the only constraint :)

## Example

**Input:**

2  
1  
2

**Output:**

2  
3

note: a good play list may consist 0 track :)

note 2: how many Persian rock tracks we have?