## 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?

