

The new species

You make a visit to an uninhabited island with a new pair of species, lets call them POPO! Each pair of POPO(one male and one female) who mature at the age of one month, have two offspring (one male and one female) each month after that, and live forever. The speciality of the species is that each pair of POPO, mature in one month and then produce a pair of newborns at the beginning of every following month. How many pairs of POPO will there be n months?

$0 \leq n \leq 90$

Sample I/O:

Input :

1. Line 1 contains number of test cases.
2. The following lines contain the values of n.

Output :

pairs of species for corresponding values of n.

Input :

1

0

Output :

1