## Fibonacci Easy

Print the n first fibonnaci numbers. You must know that the first 2 fibonacci numbers are 1,1.

## Input

The first line will contain a number $C(1<=C<=100)$. Then, will follow $C$ lines, each one with a number N ( $1<=\mathrm{M}<=45$ ).

## Output

For each N you must print the N first fibonnaci, each one followed by a whitespace.

## Example

Input:
5
1

2
3

5

8

Output:
1
11
112
11235
1123581321

