## Fast Sum of two to an exponent

There is people that really like to do silly thinks, one of them is sum the numbers from $2^{\wedge} 0$ to $2^{\wedge} n$, task is actually really simple, just do a ultra fast sum of term $2^{\wedge} 0$ to $2^{\wedge} n$

## Input

the first line starts with a number, T , wich is the number of test cases, T lines will follow each line contains a number " $n$ " that is the nth term of the sum from $2^{\wedge} 0$ to $2^{\wedge} n$
$0<=\mathrm{n}<=500$

## Output

Output the sum from $2^{\wedge} 0$ to $2^{\wedge} n$ MODULO 1298074214633706835075030044377087

## Example

## Input:

3
0
1
2

Output:
1
3
7
Extra: TLE is equal to 0.15 s

