Bacterial Growth

Assignment 2
Computer Programming
Due date: 12 October, 2018

Problem Statement: In the city of *Bacteriapur* lives bacterias which are known to have a fast growing mechanism. For every time instant t, the number of bacterias living in *Bacteriapur* gets incremented by t times the current population. (starting with initial population, $P_0 = 1$). Your task is to calculate the population of Bacteriapur after a given time instant t.

Input
First line contains an integer T denoting the number of test cases. Each of the next T lines contains an integer t, denoting the time instant at which population of Bacteriapur needs to be calculated.

Output
For each test case, output a single integer denoting the population of *Bacteriapur* after the given time instant t

Constraints
$1 \leq T \leq 100$
$0 \leq t \leq 500$

Time Limit: 1 sec
Memory Limit: 256 MB

Sample Test Case

Input	Output
3	1
1	2
2	6
3	