

## Problem A. Master of Numbers

Input file: standard input  
Output file: standard output  
Time limit: 1s  
Balloon color: Black

In the ancient and vibrant land of Ethiopia, a legendary figure known as Ahmed Hibet, renowned for his wisdom and mathematical prowess, has issued a challenge to the brightest minds at the Ethiopian Collegiate Programming Contest (EtCPC). Ahmed Hibet, a sage who has spent years studying the mystical properties of numbers, seeks help in his latest endeavor. He believes that certain numbers, which he calls "Light of Sheba" numbers, are the key to unlocking a historical secret that dates back to the times of the Queen of Sheba. According to his research, these special numbers are defined by a unique characteristic: they have an odd number of divisors.

The challenge laid out by Ahmed Hibet is as follows: Contestants are tasked with finding the sum of all "Light of Sheba" numbers that are less than or equal to a given number  $N$ . Specifically, participants must calculate the summation of all integers up to  $N$ , where each integer has an odd number of divisors. Ahmed Hibet awaits the solutions, eager to see if anyone can uncover the secrets held by these enigmatic numbers and prove themselves worthy of the title of "Master of Numbers" in the EtCPC.

### Input

Input begins with an integer  $1 \leq t \leq 10^5$ , indicating the number of test cases that follow. Each of the next  $t$  lines contains exactly one integer value for  $N$  in the range  $1 \leq N \leq 10^{12}$ .

### Output

For each test case, output a line containing an integer representing the sum of all integers up to  $N$ , where each integer has an odd number of divisors.

### Example

Sample Input 1	Sample Output 1
4 3 10 30 100	1 14 55 385