

Carl Friedrich Gauss

Carl Friedrich Gauss (1777-1855) is recognized as being one of the greatest mathematicians of all time. During his lifetime he made significant contributions to almost every area of mathematics, as well as physics, astronomy and statistics. Like many of the great mathematicians, Gauss showed amazing mathematical skill from an early age, and there are many stories which show how clever he could be.

The most well-known story is a tale from when Gauss was still at primary school. One day Gauss' teacher asked his class to add together all the numbers from 1 to 100, assuming that this task would occupy them for quite a while. He was shocked when young Gauss, after a few seconds thought, wrote down the answer 5050. The teacher couldn't understand how his pupil had calculated the sum so quickly in his head, but the eight year old Gauss pointed out that the problem was actually quite simple.

Now it's your turn, I will tell you a number N you have to find out the sum of 1 to N.

Input:

Input start with an integer T($T \leq 100$). Each test case contain a integer N ($1 \leq N \leq 10^9$)

Output:

For each case, print the case number and sum of 1 to N.

Sample:

Input	Output
2	Case 1: 55
10	Case 2: 5050
100	

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