Coding Test

Great programmer "Tourist" is attending a coding test. In this test he is asked to solve an easy problem. The problem description is,

There is an array **a** consists of **n** integers and another nonnegative integer **x**. He need to find the number of pair (*i*, *j*) where $i!=j \& a_i - a_j = x$.

As it is very easy for him, he gave you this problem and start trying another hard problem. Can you solve this for him?

Input

Input starts with an integer t ($1 \le t \le 10$), number of test case.

Each case contains two integer n ($1 \le n \le 10^5$), and x ($0 \le x \le 10^9$).

Next line contains n separated integers $a_i (1 \le a_i \le 10^9)$.

Output

For each case, print the case number and the number of pairs which meet the above condition.

Example

Case 1: 2

Case 2: 10