## 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 $\boldsymbol{n}$ integers and another nonnegative integer $\boldsymbol{x}$. He need to find the number of pair ( $i, j$ ) where $i!=j \& a_{i}-a_{j}=\boldsymbol{x}$.

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 $\mathbf{t}(\mathbf{1} \mathbf{t} \leq \mathbf{1 0})$, number of test case.
Each case contains two integer $\mathrm{n}\left(1 \leq \mathrm{n} \leq 10^{5}\right)$, and $\mathrm{x}\left(0 \leq x \leq 10^{9}\right)$.
Next line contains $n$ separated integers $a_{i}\left(1 \leq a_{i} \leq 10^{9}\right)$.

## Output

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

## Example

Input:
2
53
51423
102
12171913171117121514
Output:
Case 1: 2
Case 2: 10

