Assignment Case	
COMP6047 Algorithm and Programming	
Computer Science	**<Case Code>**
***Valid on** Compact Semester Year 2019/2020*	**Revision 00**

Soal
Case

Add and Subtract

Jojo will be participating in a Mathematic international competition next year. He has done many mathematic difficult problems and one of them is finding how many ways to calculate a desired number from any given numbers using arithmetic operators '+' and '-'. To help Jojo make sure his answer, you are asked by Jojo to make a simple program to find the total ways.

Format Input

The input starts with an integer T, the number of test cases. Each test case starts with number M and N, the target number and how many numbers will be given. Then, it will be followed by N integers Ai, the given numbers.

Format Output

For each test case, print "Case #T:", and followed by how many ways there are to calculate the given numbers.

Constraints

$1 \leq T \leq 100$

$-500{,}000{,}000 \leq M, Ai \leq 500{,}000{,}000$

$1 \leq N \leq 15$

Sample Input	Sample Output
3 4 4 9 5 6 10 -3 2 9 5 4 3 1 3 2	Case #1: There will be 3 way(s). Case #2: There's no way. Case #3: There will be 2 way(s).

Explanation:
In the first test case:
9 - 5 = 4
- 6 + 10 = 4
9 + 5 - 10 = 4
Therefore, there are 3 way.

Note:
You are encouraged to use recursive to solve this problem.
Don't forget to add the newline character after printing the output.