

# Johnny The Gambler

Johnny is a gambling addict. He entered a casino and started playing a game with the dealer. The game is as follows: the dealer deals a sequence of  $N$  cards, each card containing a number  $C[j]$  and asks Johnny how many pairs  $(j, k)$  such that  $j < k$  and  $C[j] + C[k] = X$ . If Johnny answers correctly he wins, otherwise the dealer wins.

## Input Format

The first line of input contains an integer  $T$ , the number of test cases.  $T$  test cases follow, Each test case start with the value of  $0 \leq X \leq 2 \cdot 10^3$  followed by the number of cards  $0 < N \leq 10^5$  followed by  $N$  numbers representing the numbers on the cards  $0 \leq C[j] \leq 10^3$ .

## Output Format

There should be  $T$  lines, containing the following format.

$k. S$

Where  $k$  is the test case number (starting at 1), a single period, a single space and  $S$  representing the number of valid pairs  $(j, k)$  as described above.

Sample Input	Sample Input
1 10 3 1 5 9	1. 1