# Count Equal Pairs

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|---|---|
| Input file: | standard input |
| Output file: | standard output |
| Time limit: | 1 second |
| Memory limit: | 256 megabytes |

Meow is given two arrays, represented by $a$ and $b$. The elements in both arrays are sorted in non-decreasing order. How many number of pairs $(i, j)$ Meow can find from the two arrays where $a_i = b_j$ $(0 \leq i < n;\ 0 \leq j < m)$

## Input

The first line contains an integer $t$ $(1 \leq t \leq 100)$ - the number of test cases.

The first line of each test case contains two integers $n$ and $m$, representing the size of the arrays $(1 \leq n, m \leq 10^5)$.

The second line of each test case contain $n$ integers $a_i$, where $(-10^3 \leq a_i \leq 10^3)$.

The third line of each test case contain $m$ integers $b_j$, where $(-10^3 \leq b_j \leq 10^3)$.

## Output

For every test case, print the number of **equal** pairs that can be formed from the two arrays.

## Example

| standard input | standard output |
|---|---|
| 2<br>8 7<br>1 1 3 3 3 5 8 8<br>1 3 3 4 5 5 5<br>3 4<br>3 4 5<br>3 4 4 5 | 11<br>4 |

## Note

In second example, there are 4 such pairs – (3,3),(4,4),(4,4),(5,5)