A. IO - Explicit Counts

time limit per test: 1 second
memory limit per test: 256 megabytes

Today we are going to add up a bunch of numbers and then subtract a bunch of numbers from it. All you have to do is read them all in!

Input

The first line is the number $1 \leq N \leq 10$ giving the number of test cases. For each test case, the first line contains two numbers $0 \leq T_a \leq 100$ and $0 \leq T_s \leq 100$, the number of items to add and the number of items to subtract, respectively. This is followed by $T_a + T_s$ numbers $a_1, \ldots, a_{T_a}, b_1, \ldots b_{T_s}$. Each number will be on its own line, and range from -1000 to 1000.

Output

For each test case, output the sum $\Sigma_i^{T_a} a_i - \Sigma_i^{T_s} b_i$.

Example

input Copy

```
1
4 4
2
4
6
8
1
1
1
1
```

output Copy

```
16
```

UIUC CS 491 Spring 2025
Private
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→ Group Contests

- Line Sweep - Homework (Extra Credit)
- Convex Hull - Preclass
- Number Theory I - Homework
- Line Sweep - Preclass
- Number Theory II - Homework
- Combinatorics - Homework
- Geometry - Preclass
- Geometry - Homework
- Convex Hull - Homework (Extra Credit)
- Rabin Karp - Homework
- Number Theory II - Preclass
- Combinatorics - Preclass
- DP TSP - Homework
- KMP - Homework
- DP Tree - Homework
- Number Theory I - Preclass
- KMP - Preclass
- DP Palindromes - Homework
- Rabin Karp - Preclass
- DP Edit Distance - Homework
- DP Knapsack - Homework
- DP TSP - Preclass
- DP Longest Increasing Subsequence - Homework
- DP Intro - Homework
- DP Tree - Preclass
- Greedy - Homework
- Fenwick Tree - Homework