

Maximum Tip Calculator

Submissions: 35995 (/problem_submissions.php?pid=2606) Accuracy: 16.86% Difficulty: Medium (https://practice.geeksforgeeks.org/Medium/0/0/) Marks: 4

Associated Course(s): Geeks Classes (/courses/geeks-classes/) Geeks Classes- Algorithms (/courses/geeks-classes-algorithms/) More

Show Topic Tags

Company Tags

Amazon (/company/Amazon/)

TCS (/company/TCS/)

LIVE BATCHES

Problems

Rahul and Ankit are the only two waiters in Royal Restaurant. Today, the restaurant received N orders. The amount of tips may differ when handled by different waiters, if Rahul takes the i th order, he would be tipped A_i rupees and if Ankit takes this order, the tip would be B_i rupees.

In order to maximize the total tip value they decided to distribute the order among themselves. One order will be handled by one person only. Also, due to time constraints Rahul cannot take more than X orders and Ankit cannot take more than Y orders. It is guaranteed that $X + Y$ is greater than or equal to N , which means that all the orders can be handled by either Rahul or Ankit. Find out the maximum possible amount of total tip money after processing all the orders.

Input:

- The first line contains one integer, number of test cases.
- The second line contains three integers N , X , Y .
- The third line contains N integers. The i^{th} integer represents A_i .
- The fourth line contains N integers. The i^{th} integer represents B_i .

Output:

Print a single integer representing the maximum tip money they would receive.

Constraints:

$$1 \leq N \leq 105$$

$$1 \leq X, Y \leq N; X + Y \geq N$$

$$1 \leq A_i, B_i \leq 104$$

Example:**Input:**

```

2
5 3 3
1 2 3 4 5
5 4 3 2 1
8 4 4
1 4 3 2 7 5 9 6
1 2 3 6 5 4 9 8

```

Output:

```

21
43

```

**** For More Input/Output Examples Use 'Expected Output' option ****

Author: gauravjjs (<https://auth.geeksforgeeks.org/user/gauravjjs/practice/>)

(/problem_submissions.php?pid=2606)

(/problem_submissions.php?

pid=2606&isSolved=ALL&lang=ALL&user=Self)

My Submissions

All Submissions

Editorial (/editorial.php?pid=2606)

Monokai



C++ (g++ 5.4)



⚙️ (<https://auth.geeksforgeeks.org/edit-profile.php>) ↺ ↻ ↶ ↷

```

1 #include <bits/stdc++.h>
2
3 using namespace std;
4
5 int main()
6 {
7     int t,n,x,y;
8     cin>>t;
9
10
11     while(t--){
12         int counta=0,countb=0,sum=0;
13         cin>>n>>x>>y;
14

```