Summer Institute '17 Contest 1 P10 - Trading Cards

Alice and Carl love collecting trading cards. They both have large collections, and want to know how much their collections are worth. Both of their collections consist of several types of cards, each with an associated value.

Input Specifications

The first line of input consists of a single integer, n $(1 \le n \le 200)$, the number of card types Alice has. The second line of input consists of n integers, a_1 through a_n , where a_i represents the value of Alice's $i^{\rm th}$ card type $(1 \le ai \le 100)$. The third of input consists of n integers, b_1 through b_n , where b_i represents how many cards of the $i^{\rm th}$ type Alice has $(1 \le bi \le 100)$. The fourth line of input consists of a single integer, m $(1 \le m \le 200)$, the number of card types Carl has. The fifth line of input consists of m integers, c_1 through c_m , where c_i represents the value of Carl's $i^{\rm th}$ card type $(1 \le c_i \le 100)$. The sixth of input consists of m integers, d_1 through d_m , where d_i represents how many cards of the $i^{\rm th}$ type Carl has $(1 \le d_i \le 100)$.

Output Specifications

On a single line, output two space separated integers: the value of Alice's collection and the value of Carl's collection, respectively.

Sample Input 1

```
4
1 2 3 4
3 5 3 1
3
10 4 60
3 20 1
```

Sample Output 1

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26 170
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