# Problem A. Electronics Shop

**OS** Linux

A person wants to determine the most expensive computer keyboard and USB drive that can be purchased with a give budget. Given price lists for keyboards and USB drives and a budget, find the cost to buy them. If it is not possible to buy both items, return -1.

#### Example

```
b=60 \ keyboards=[40,50,60] \ drives=[5,8,12]
```

The person can buy a **40 keyboard** + **12 USB drive** = **52**, or a **50 keyboard** + **8 USB drive** = **58**. Choose the latter as the more expensive option and return **58**.

#### **Function Description**

Complete the *getMoneySpent* function in the editor below.

getMoneySpent has the following parameter(s):

• int keyboards[n]: the keyboard prices

• *int drives[m]*: the drive prices

• *int b*: the budget

#### **Returns**

• *int*: the maximum that can be spent, or -1 if it is not possible to buy both items

#### **Input Format**

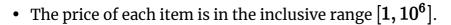
The first line contains three space-separated integers b, n, and m, the budget, the number of keyboard models and the number of USB drive models.

The second line contains n space-separated integers keyboard[i], the prices of each keyboard model.

The third line contains  $m{m}$  space-separated integers  $m{drives}$ , the prices of the USB drives.

#### **Constraints**

- $1 \le n, m \le 1000$
- $1 < b < 10^6$



## Sample Input o

10 2 3

3 1

5 2 8

# Sample Output o

9

# **Explanation 0**

Buy the  $\mathbf{2}^{nd}$  keyboard and the  $\mathbf{3}^{rd}$  USB drive for a total cost of  $\mathbf{8+1}=\mathbf{9}$ .

### Sample Input 1

5 1 1

4

5

### Sample Output 1

-1

### Explanation 1

There is no way to buy one keyboard and one USB drive because  $\mathbf{4+5>5}$ , so return  $\mathbf{-1}$ .