

# Problem K. 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  $m$  space-separated integers  $drives$ , the prices of the USB drives.

## Constraints

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

- The price of each item is in the inclusive range  $[1, 10^6]$ .

**Sample Input 0**

10 2 3

3 1

5 2 8

**Sample Output 0**

9

**Explanation 0**

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

**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  $4 + 5 > 5$ , so return  $-1$ .