

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 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 **2nd** keyboard and the **3rd** 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 .