Electronics Shop ★

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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

 $\mathit{keyboards} = [40, 50, 60]$

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

ullet 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 \boldsymbol{n} space-separated integers $\boldsymbol{keyboard[i]}$, the prices of each keyboard model.

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

Constraints

- $1 \le n, m \le 1000$
- $1 \le b \le 10^6$
- The price of each item is in the inclusive range [1, 10⁶].

Sample Input 0

10 2 3

31

528

Sample Output O

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

```
511
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.

```
9 12
          def getMoneySpent(keyboards, drives, b):
     13
              max_spent = -1
     14
              for k in keyboards:
                  for d in drives:
     15
     16
                      total = k + d
     17
                      if max_spent < total <= b:</pre>
                          max\_spent = total
     18
     19
              return max_spent
     20
          if __name__ == '__main__':
     21
     22
              fptr = open(os.environ['OUTPUT_PATH'], 'w')
     23
              bnm = input().split()
     24
     25
              b = int(bnm[0])
     26
     27
     28
              n = int(bnm[1])
     29
              m = int(bnm[2])
     30
     31
     32
              keyboards = list(map(int, input().rstrip().split()))
     33
              drives = list(map(int, input().rstrip().split()))
     34
     35
     36
              #
              # The maximum amount of money she can spend on a keyboard and USB drive, or -1 if she can't purchase bot
     37
     38
     39
     40
              moneySpent = getMoneySpent(keyboards, drives, b)
     41
     42
              fptr.write(str(moneySpent) + '\n')
     43
              fptr.close()
     44
     45
                                                                                                        Line: 19 Col: 21
EMACS
```

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