Commercial Delivery

locked

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Our company has a delivery vehicle with K(kilo grams) capacity. There are set of KFC and BurgerKing outlets. We follow below guidelines when delivering foods for efficiency.

1. Vehicle will deliver to one KFC outlet AND one Burger King outlet.
2. Load of the delivery vehicle should be maximize.(load <= K)

Both customers provide their requirement as an array of integers. Values indicate number of kilograms needed.
For efficiency we need to find maximum weight that can be loaded to our vehicle.

Note : Vehicle maximum capacity is defined as K(kilo grams).

Input Format

Number of KFC outlets N1
N1 space seperated weights from KFC outlets
Number of BurgerKing outlests N2
N2 space seperated weights from BurgerKing outlets
Capacity of the vehicle : K

Constraints

K - is the maximum load vehicle can transport.
0 < K < 1000000000
0< N1,N2 < 10000000

Output Format

Print the closest load that can be occupied in the vehicle

Sample Input 0

```
5
1 12 4 15 3
5
10 5 13 8 9
29
```

Sample Output 0

```
28
```

C++

```cpp
#include <cmath>
#include <cstdio>
#include <vector>
#include <iostream>
#include <algorithm>
using namespace std;


int main() {
    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
    return 0;
}

```

Line: 1 Col: 1

Upload Code as File Test against custom input Run Code Submit Code