Marwadi University	**Marwadi University** **Faculty of Technology** **Department of Information and Communication Technology**	
Sem : 3	**Name : VEDANT BHARAD**	
Day : 41	**Date : 27/11/2022**	**Enrollment No: 92100133023**

CP Club 365Days Challenge

Date – 27/11/2022

Programming language – only C language

Problem Statement

Code must be in C language only

https://www.hackerrank.com/challenges/electronics-shop/problem?isFullScreen=true

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Your Code:

```c
// 0x41Day of 0x365Days challenge
// VEDANT BHARAD
// 27-11-2022
#include <assert.h>
#include <limits.h>
#include <math.h>
#include <stdbool.h>
#include <stdio.h>
#include <stdlib.h>
#include <string.h>

char* readline();
char** split_string(char*);
int getMoneySpent(int keyboards_count, int* keyboards, int drives_count, int* drives, int b) {
    int moneySpent = 0;
    for(int loop1=0; loop1 < keyboards_count; loop1++) {
        for(int loop2=0; loop2 < drives_count; loop2++){
            if((keyboards[loop1]+drives[loop2]<=b) && (keyboards[loop1]+drives[loop2]>moneySpent)){
                moneySpent = keyboards[loop1]+drives[loop2];
            }
        }
    }
    if(moneySpent==0){
        return -1;
    }
    else{
        return moneySpent;
    }
}
```

```c
int main()
{
    FILE* fptr = fopen(getenv("OUTPUT_PATH"), "w");
    char** bnm = split_string(readline());
    char* b_endptr;
    char* b_str = bnm[0];
    int b = strtol(b_str, &b_endptr, 10);
    if (b_endptr == b_str || *b_endptr != '\0') { exit(EXIT_FAILURE); }
    char* n_endptr;
    char* n_str = bnm[1];
    int n = strtol(n_str, &n_endptr, 10);
    if (n_endptr == n_str || *n_endptr != '\0') { exit(EXIT_FAILURE); }
    char* m_endptr;
    char* m_str = bnm[2];
    int m = strtol(m_str, &m_endptr, 10);
    if (m_endptr == m_str || *m_endptr != '\0') { exit(EXIT_FAILURE); }
    char** keyboards_temp = split_string(readline());
    int* keyboards = malloc(n * sizeof(int));
    for (int keyboards_itr = 0; keyboards_itr < n; keyboards_itr++) {
        char* keyboards_item_endptr;
        char* keyboards_item_str = *(keyboards_temp + keyboards_itr);
        int keyboards_item = strtol(keyboards_item_str, &keyboards_item_endptr, 10);
```

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```
        if (keyboards_item_endptr == keyboards_item_str || *keyboards_item_endptr != '\0') { exit(EXIT_FAILURE); }
        *(keyboards + keyboards_itr) = keyboards_item;
    }
    int keyboards_count = n;
    char** drives_temp = split_string(readline());
    int* drives = malloc(m * sizeof(int));
    for (int drives_itr = 0; drives_itr < m; drives_itr++) {
        char* drives_item_endptr;
        char* drives_item_str = *(drives_temp + drives_itr);
        int drives_item = strtol(drives_item_str, &drives_item_endptr, 10);
        if (drives_item_endptr == drives_item_str || *drives_item_endptr != '\0') { exit(EXIT_FAILURE); }
        *(drives + drives_itr) = drives_item;}
    int drives_count = m;
    int moneySpent = getMoneySpent(keyboards_count, keyboards, drives_count, drives, b);
    // fprintf(fptr, "%d\n", moneySpent);
    printf("%d\n", moneySpent);
    fclose(fptr);
    return 0;
}
char* readline() {
    size_t alloc_length = 1024;
    size_t data_length = 0;
    char* data = malloc(alloc_length);
    while (true) {
        char* cursor = data + data_length;
        char* line = fgets(cursor, alloc_length - data_length, stdin);
        if (!line) { break; }
        data_length += strlen(cursor);
        if (data_length < alloc_length - 1 || data[data_length - 1] == '\n') { break; }
        size_t new_length = alloc_length << 1;
        data = realloc(data, new_length);
        if (!data) { break; }
        alloc_length = new_length;
    }
    if (data[data_length - 1] == '\n') {
        data[data_length - 1] = '\0';
    }
    data = realloc(data, data_length);
    return data;
}
char** split_string(char* str) {
    char** splits = NULL;
    char* token = strtok(str, " ");
    int spaces = 0;
    while (token) {
        splits = realloc(splits, sizeof(char*) * ++spaces);
        if (!splits) {
            return splits;}
        splits[spaces - 1] = token;
        token = strtok(NULL, " ");
    }
    return splits;
}
```

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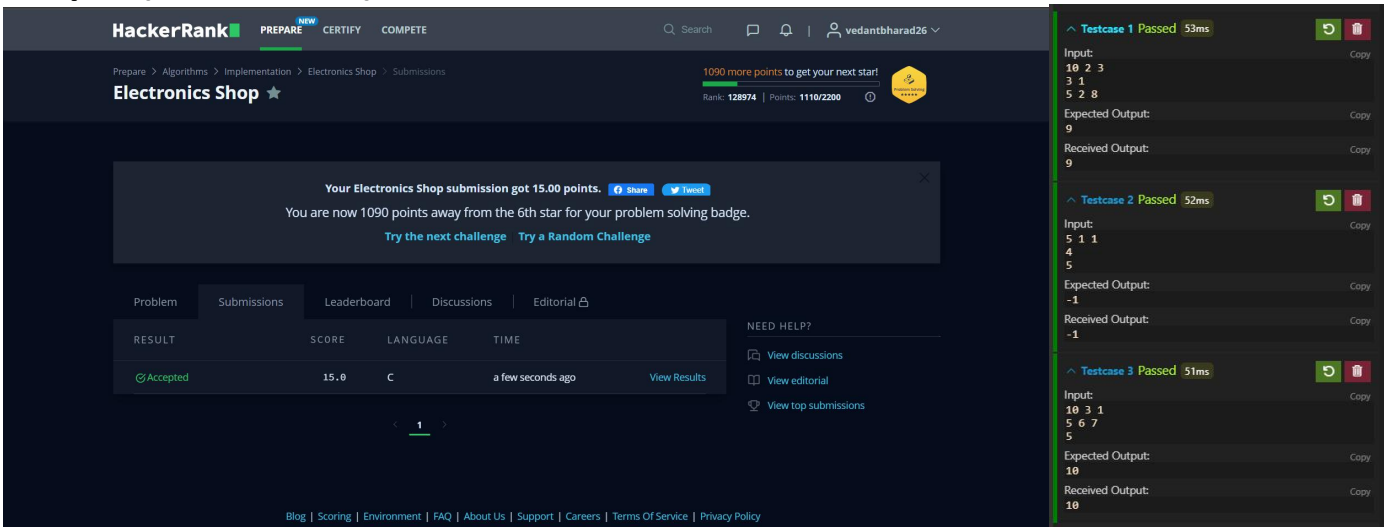
Output (Screen Shot):



Understanding about problem:

- In this task there is 3 inputs in first line there are b=budget and length of two arrays and in second and third there will be array of price.
- In this task I need to return an int value which is count of two price and it should be less then or equal to b.

Note: If you can't understand the problem, feel free to contact us and we'll help you. Please don't copy and paste from anywhere.

ALL THE BEST

Team CP Club