WEEK 7

Sample Output

1 4

1 2

Explanation

Sunny and Johnny make the following two trips to the parlor:

1. The first time, they pool together ***m*** = ***4*** dollars. Of the five flavors available that day, flavors ***1*** and ***4*** have a total cost of ***1*** + ***3*** = ***4***.
2. The second time, they pool together ***m*** = ***4*** dollars. TOf the four flavors available that day, flavors ***1*** and ***2*** have a total cost of ***2*** + ***2*** = ***4***.

Answer: (penalty regime: 0 %)

```c
#include <stdio.h>
int main(){
    int t;
    scanf("%d",&t);
    for(int i=0;i<t;i++){
        int a,b,m,n,count=0;
        scanf("%d %d",&m,&n);
        int flav[n];
        for(int j=0;j<n;j++){
            scanf("%d",&flav[j]);}
        for (a=0;a<n-1;a++){
            for(b=a+1;b<n;b++){
                if (flav[a]+flav[b]==m){
                    count++;
                    break;}}
            if(count==1)
            break;}
        printf("%d %d\n",a+1,b+1);}}
```

	Input	Expected	Got	
✓	2	1 4	1 4	✓

13

203 204 204 205 206 207 205 208 203 206 205 206 204

Sample Output

204 205 206

Explanation

204 is present in both arrays. Its frequency in ***arr*** is ***2***, while its frequency in ***brr*** is ***3***. Similarly, ***205*** and ***206*** occur twice in ***arr***, but three times in ***brr***. The rest of the numbers have the same frequencies in both lists.

Answer: (penalty regime: 0 %)

```c
#include <stdio.h>
int main(){
    int a,b;
    scanf("%d",&a);
    int arr[a];
    for(int i=0;i<a;i++){
        scanf("%d",&arr[i]);}
    scanf("%d",&b);
    int brr[b];
    for(int i=0;i<b;i++){
        scanf("%d",&brr[i]);}
    int s=brr[0],l=brr[0];
    for(int j=0;j<b;j++){
        if(brr[j]<s)
        s=brr[j];
        else if(brr[j]>l)
        l=brr[j];}
    int c1,c2;
    for(int k=s;k<=l;k++){
        c1=0,c2=0;
        for(int m=0;m<a;m++){
            if(arr[m]==k)
            c1++;}
        for(int n=0;n<b;n++){
            if(brr[n]==k)
            c2++;}
        if(c1!=c2){
            for(int p=0;p<c2-c1;p++){
                printf("%d ",k);}}}}
```

	Input	Expected	Got	
✓	10 203 204 205 206 207 208 203 204 205 206 13	204 205 206	204 205 206	✓

YES

YES

YES

Explanation 1

In the first test case, ***arr[2]*** = ***4*** is between two subarrays summing to ***2***.

In the second case, ***arr[0]*** = ***2*** is between two subarrays summing to ***0***.

In the third case, ***arr[2]*** = ***2*** is between two subarrays summing to ***0***.

Answer: (penalty regime: 0 %)

```c
#include <stdio.h>
int main(){
    int t;
    scanf("%d",&t);
    while(t--){
        int n,flag=0;
        scanf("%d",&n);
        int arr[n];
        for (int i=0;i<n;i++){
            scanf("%d",&arr[i]);}
        int mid,s1,s2;
        int ps=0,pe=n-1;
        while(ps<=pe){
            mid=(ps+pe)/2;
            s1=0,s2=0;
            for(int s=0;s<mid;s++)
            s1+=arr[s];
            for(int l=n-1;l>mid;l--)
            s2+=arr[l];
            if(s1==s2){
                flag=1;
                break;}
            else if(s1<s2){
                ps=mid+1;}
            else{
                pe=mid-1;}}
        if(flag==1)
        printf("YES\n");
        else
        printf("NO\n");}}
```

	Input	Expected	Got	
✓	3 5 1 1 4 1 1	YES YES YES	YES YES YES	✓