

Section: Week-07-Searching Algo x +

Not secure | www.rajalakshmicolleges.org/moodle/course/section.php?id=23

REC-CIS

MADHUJA BA 2024-CSE M2

## Week-07-Searching Algorithms-Linear and Binary

Dashboard / My courses / GE23131-PUC-2024 / Week-07-Searching Algorithms-Linear and Binary

Navigation

- Dashboard
  - Site home
  - Site pages
- My courses
  - GE23131-PUC-2024
    - Participants
    - Competencies
    - Grades
    - General
    - Skill Test-01-MCQ & Coding
    - Lecture Notes
    - Week-01-Overview of C, Constants, Variables and Da...
    - Assessment-01-Overview of C, Constants, Variables ...

Week-06-01-One-Dimensional Arrays

Week-07-01-Practice Session-Coding

Assessment-07-Searching Algorithms-Linear and Binary

Jump to...

Assessment-07-Searching Algorithms-Linear and Binary

Done

Week-07-01-Practice Session-Coding: Attempt review | REC-CIS - Personal - Microsoft Edge

Not secure | www.rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=142024&cmid=182

REC-CIS

```
1 #include<stdio.h>
2 int main(){
3     int t,m,n,c=0;
4     scanf("%d",&t);
5     for(int i=0;i<t;i++){
6         c=0;
7         scanf("%d\n%d",&m,&n);
8         int arr[n];
9         for(int j=0;j<n;j++){
10             scanf("%d",&arr[j]);
11         }
12         for(int a=0;a<n-1;a++){
13             for(int b=a+1;b<n;b++){
14                 if (arr[a]+arr[b]==m){
15                     printf("%d %d\n",a+1,b+1);
16                     c=1;break;
17                 }
18             }if(c==1)break;
19         }
20     }
21     return 0;
22 }
```

	Input	Expected	Got	
✓	2	1 4	1 4	✓
	4	1 2	1 2	
	5			
	1 4 5 3 2			
	4			
	4			
	2 2 4 3			

Passed all tests! ✓

REC-CIS

```
1 #include<stdio.h>
2 int main(){
3     int n,m,c,cl=0,co;
4     scanf("%d",&n);
5     int arr[n];
6     for(int a=0;a<n;a++){
7         scanf("%d",&arr[a]);
8     }
9     scanf("%d",&m);
10    int brr[m],ans[m];
11    for(int b=0;b<m;b++){
12        scanf("%d",&brr[b]);
13    }
14    for(int j=0;j<m;j++){
15        {
16            c=0;
17            for(int i=0;i<n;i++){
18                if(arr[i]==brr[j]){
19                    c++;
20                    arr[i]=-1;
21                    break;
22                }
23            }
24            if(c==0){
25                ans[cl]=brr[j];
26                cl++;
27            }
28        }
29        for(int a=0;a<n;a++){
30            co=0;
31            for(int b=0;b<n;b++){
32                if(arr[b]<ans[a])
33                    co++;
34            }
35            int temp=ans[a];
36            ans[a]=ans[co];
37            ans[co]=temp;
```

REC-CIS

```
25         ans[cl]=brr[j];
26         cl++;
27     }
28 }
29 for(int a=0;a<n;a++){
30     co=0;
31     for(int b=0;b<n;b++){
32         if(arr[b]<ans[a])
33             co++;
34     }
35     int temp=ans[a];
36     ans[a]=ans[co];
37     ans[co]=temp;
38 }
39 for(int i=0;i<n;i++)
40     printf("%d ",ans[i]);
41 return 0;
42 }
```

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

Passed all tests! ✓

REC-CIS

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 %)

```
1 #include<stdio.h>
2 int main(){
3     int t,n,Is,rs,m;
4     scanf("%d",&t);
5     for(int i=0;i<t;i++){
6         Is=0;
7         rs=0;
8         scanf("%d",&n);
9         int arr[n];
10        for(int j=0;j<n;j++){
11            scanf("%d",&arr[j]);
12        }
13
14        m=n/2;
15        if(arr[m]==0){
16            for(m=0;arr[m]==0 && m<n;m++){
17            }
18            for(int j=0;j<=m;j++){
19                Is+=arr[j];
20            }
21            for(int j=m;j<n;j++){
22                rs+=arr[j];
23            }
24            printf("%s\n", (Is==rs)? "YES": "NO");
25        }
26        return 0;
27    }
```

```
20 for(int j=m;j<n;j++){
21     rs+=arr[j];
22     printf("%s\n", (Is==rs)? "YES": "NO");
23 }
24 return 0;
25 }
```

	Input	Expected	Got	
✓	3	YES	YES	✓
	5	YES	YES	
	1 1 4 1 1	YES	YES	
	4			
	2 0 0 0			
	4			
	0 0 2 0			
✓	2	NO	NO	✓
	3	YES	YES	
	1 2 3			
	4			
	1 2 3 3			

Passed all tests! ✓

Finish review