

WEEK - 7

- > Assessment-11-String Handling Functions
- > Week-12-User-Defined Functions
- > Assessment-12-User-Defined Functions
- > Week-12-Recursive Functions
- > Assessment-12-Recursive Functions
- > Week-13-Passing Arrays

Week-07-Searching Algorithms-Linear and Binary

Week-07-01-Practice Session-Coding

Done

Assessment-07-Searching Algorithms-Linear and Binary

```
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;
17                     break;
18                 }
19             }
20             if(c==1)break;
21         }
22     }
23     return 0;
24 }
```

	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! ✓

```

1  #include<stdio.h>
2  int main(){
3      int n, m, c, c1 = 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         c = 0;
16         for(int i = 0; i < n; i++){
17             if(arr[i] == brr[j]){
18                 c = 1;
19                 arr[i] = -1;
20                 break;
21             }
22         }
23         if(c == 0){
24             ans[c1] = brr[j];
25             c1++;
26         }
27     }
28     for(int a = 0; a < c1; a++){
29         co = 0;
30         for(int b = 0; b < c1; b++){
31             if(ans[b] < ans[a]){
32                 co++;
33             }
34         }
35         int temp = ans[a];
36         ans[a] = ans[co];
37         ans[co] = temp;
38     }
39     for(int i = 0; i < c1; i++){
40         printf("%d ", ans[i]);
41     }
42     return 0;
43 }

```

	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! ✓

```

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

```

	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! ✓