

WEEK - 8

- > Assessment-12-Recursive Functions
- > Week-13-Passing Arrays and Strings to Functions
- > Assessment-13-Passing Arrays and Strings to Functions
- > Week-14-Structures and Unions
- > Week-15-Pointers

Week-08-Sorting Algorithms-Bubble and Selection

Coding

Done

Assessment-08-Sorting Algorithms-Bubble and Selection

```
1 #include<stdio.h>
2 #include<stdlib.h>
3 #include<limits.h>
4 int cmp(const void * a, const void * b){
5     return(*(int *)a - *(int *)b);
6 }
7 int main(){
8     int a, b, c;
9     scanf("%d", &a);
10    while(a--){
11        scanf("%d %d", &b, &c);
12        int d[b];
13        for(int i = 0; i < b; i++){
14            scanf("%d", &d[i]);
15        }
16        qsort(d, b, sizeof(int), cmp);
17        int mas = 0;
18        for(int i = c; i < b; i++){
19            mas += d[i];
20        }
21        int mis = 0;
22        for(int i = 0; i < b - c; i++){
23            mis += d[i];
24        }
25        printf("%d\n", (mas - mis));
26    }
27 }
```

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

Passed all tests! ✓

```

1 #include<stdio.h>
2 int main(){
3     int a;
4     scanf("%d", &a);
5     int b[a], c[a];
6     for(int i = 0; i < a; i++)
7         scanf("%d", &b[i]);
8     for(int i = 0; i < a; i++)
9         scanf("%d", &c[i]);
10    int s = 1;
11    for(int i = 0; i < a; i++){
12        if(c[i] < b[i]){
13            s = 0;
14        }
15    }
16    (s == 1)?printf("yes"):printf("No");
17 }

```

	Input	Expected	Got	
✓	5 123 146 454 542 456 100 328 248 689 200	No	No	✓

Passed all tests! ✓

```

1  #include<stdio.h>
2  int main(){
3      int a;
4      scanf("%d", &a);
5      int b[a];
6      for(int i = 0; i < a; i++){
7          scanf("%d", &b[i]);
8      }
9      int c = 0;
10     for(int i = 0; i < a; i++){
11         for(int j = i + 1; j < a; j++){
12             if(b[i] == b[j]){
13                 c++;
14             }
15         }
16     }
17     printf("%d", c);
18 }

```

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

Passed all tests! ✓

```

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

```

	Input	Expected	Got	
✓	5 4 5 3 7 1	4 2 0 1 3	4 2 0 1 3	✓

Passed all tests! ✓