

Merge Sort: Attempt review | REC-CIS - Google Chrome

Not secure rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=162766&cmid=165

REC-CIS

```
21 }
22 }
23 while(i<=mid){
24     temp[k++] = arr[i++];
25 }
26 while(j<=right){
27     temp[k++] = arr[j++];
28 }
29 for(i=left;i<=right;i++){
30     arr[i] = temp[i];
31 }
32 }
33 }
34 for(int i=0;i<n;i++){
35     printf("%d ",arr[i]);
36 }
37 }
```

	Input	Expected	Got	
✓	5 30 40 50 20 10	10 20 30 40 50	10 20 30 40 50	✓

Passed all tests! ✓

Finish review

Assessment-US-Decision

76°F Mostly cloudy

Search

ENG IN

7:35 PM 1/15/2025

Merge Sort: Attempt review | REC-CIS - Google Chrome

Not secure rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=162766&cmid=165

REC-CIS

```
1 #include<stdio.h>
2 int main(){
3     int n;
4     scanf("%d",&n);
5     int arr[n];
6     for(int i=0;i<n;i++){
7         scanf("%d",&arr[i]);
8     }
9     int temp[n];
10    for(int size =1;size<n;size*=2){
11        for(int left =0;left<n-1;left+=2*size){
12            int mid = left + size - 1;
13            int right = (left + 2*size-1 < n) ? left+2*size-1 : n-1;
14            int i=left,j=mid+1,k=left;
15            while(i<=mid && j<=right){
16                if(arr[i] <= arr[j]){
17                    temp[k++] = arr[i++];
18                }
19                else{
20                    temp[k++] = arr[j++];
21                }
22            }
23            while(i<=mid){
24                temp[k++] = arr[i++];
25            }
26            while(j<=right){
27                temp[k++] = arr[j++];
28            }
29            for(i=left;i<=right;i++){
30                arr[i] = temp[i];
31            }
32        }
33    }
34    for(int i=0;i<n;i++){
35        printf("%d ",arr[i]);
36    }
37 }
```

Assessment-US-Decision

76°F Mostly cloudy

Search

ENG IN

7:35 PM 1/15/2025

Quick Sort: Attempt review | REC-CIS - Google Chrome

Not secure rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=162715&cmid=164

REC-CIS

```
1 #include<stdio.h>
2 int main(){
3     int n;
4     scanf("%d",&n);
5     int arr[n];
6     for(int i=0;i<n;i++){
7         scanf("%d",&arr[i]);
8     }
9     for(int i=0;i<n-1;i++){
10        int p=arr[i];
11        int j=i+1,k=i;
12        while(j<n){
13            if(arr[j]<p){
14                k++;
15                int temp = arr[k];
16                arr[k] = arr[j];
17                arr[j] = temp;
18            }
19            j++;
20        }
21        int temp = arr[i];
22        arr[i] = arr[k];
23        arr[k] = temp;
24    }
25    for(int i=0;i<n;i++){
26        printf("%d ",arr[i]);
27    }
28    printf("\n");
29    return 0;
30 }
```

Input	Expected	Got

76°F Mostly cloudy 7:34 PM 1/15/2025

Bubble Sort: Attempt review | REC-CIS - Google Chrome

Not secure rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=162690&cmid=163

REC-CIS

Answer: (penalty regime: 0 %)

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

Input	Expected	Got
✓ 5 30 40 50 20 10	10 20 30 40 50	10 20 30 40 50 ✓

Passed all tests! ✓

76°F Mostly cloudy 7:34 PM 1/15/2025

Selection Sort: Attempt review | REC-CIS - Google Chrome

Not secure rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=162644&cmid=162

REC-CIS

Answer: (penalty regime: 0 %)

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

	Input	Expected	Got	
✓	5	10 20 30 40 50	10 20 30 40 50	✓
	30 40 50 20 10			

Passed all tests! ✓

76°F Mostly cloudy 7:34 PM 1/15/2025

Insertion Sort: Attempt review | REC-CIS - Google Chrome

Not secure rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=134790&cmid=161

REC-CIS

```
17 void printArray(int arr[], int n)
18 {
19     int i;
20     for(i=0; i<n; i++){
21         printf("%d ", arr[i]);
22     }
23     printf("\n");
24 }
25
26 int main()
27 {
28     int arr[]={30,40,50,20,10};
29     int n=sizeof(arr)/sizeof(arr[0]);
30     insertionSort(arr,n);
31     printArray(arr,n);
32     return 0;
33 }
```

	Input	Expected	Got	
✓	5	10 20 30 40 50	10 20 30 40 50	✓
	30 40 50 20 10			

Passed all tests! ✓

Finish review

76°F Mostly cloudy 7:34 PM 1/15/2025

Insertion Sort: Attempt review | REC-CIS - Google Chrome

Not secure rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=134790&cmid=161

REC-CIS

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 void insertionsort(int arr[],int n)
3 {
4     int i,key,j;
5     for(i=1;i<n;i++)
6     {
7         key=arr[i];
8         j=i-1;
9         while(j>=0&&arr[j]>key)
10        {
11            arr[j+1]=arr[j];
12            j=j-1;
13        }
14        arr[j+1]=key;
15    }
16 }
17 void printArray(int arr[],int n)
18 {
19     int i;
20     for(i=0;i<n;i++)
21     {
22         printf("%d ",arr[i]);
23     }
24     printf("\n");
25 }
26 int main()
27 {
28     int arr[]={30,40,50,20,10};
29     int n=sizeof(arr)/sizeof(arr[0]);
30     insertionsort(arr,n);
31     printArray(arr,n);
32     return 0;
33 }
```

76°F Mostly cloudy 7:34 PM 1/15/2025

Binary Search: Attempt review | REC-CIS - Google Chrome

Not secure rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=162592&cmid=160

REC-CIS

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int first , last , middle,n,a[20],key,i,found=0;
4     scanf("%d",&n);
5     for(i=0;i<n;i++){
6         scanf("%d",&a[i]);
7     }
8     scanf("%d",&key);
9     first=0;
10    last=n-1;
11    middle=(first + last)/2;
12    while(first<=last){
13        if(key==a[middle]){
14            printf("Element found at location : %d",middle);
15            found=1;
16            break;
17        }
18        else if(key<a[middle]){
19            last=middle-1;
20        }
21        else{
22            first=middle+1;
23        }
24        middle = (first+last)/2;
25    }
26    if(found==0){
27        printf("Element not found.");
28    }
29 }
```

Input	Expected	Got

76°F Mostly cloudy 7:33 PM 1/15/2025