

Ripunjay Narula (19BCE0470)
Activity-10

```
#include<stdio.h>
void quicksort(int number[50],int first,int last){
    int i, j, p, x;

    if(first<last){
        p=first;
        i=first;
        j=last;

        while(i<j){
            while(number[i]<=number[p]&& i<last)
                i++;
            while(number[j]>number[p])
                j--;
            if(i<j){
                x=number[i];
                number[i]=number[j];
                number[j]=x;
            }
        }

        x=number[p];
        number[p]=number[j];
        number[j]=x;
        quicksort(number,first,j-1);
        quicksort(number,j+1,last);
    }
}

int main(){
    int i, count, number[25];


    printf("Number of elements: ");
    scanf("%d",&count);

    printf("Enter %d elements: ", count);
    for(i=0;i<count;i++)
        scanf("%d",&number[i]);

    quicksort(number,0,count-1);

    printf("Sorted elements: ");
    for(i=0;i<count;i++)
        printf(" %d",number[i]);

    return 0;
}
```

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main.c

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Language C

```
1 #include<stdio.h>
2 void quicksort(int number[25],int first,int last){
3     int i, j, p, x;
4
5     if(first<last){
6         p=first;
7         i=first;
8         j=last;
9
10        while(i<j){
11            while(number[i]<=number[p] && i<last)
12                i++;
13            while(number[j]>number[p])
14                j--;
15            if(i<j){
16                x=number[i];
17                number[i]=number[j];
18                number[j]=x;
19            }
20        }
21
22        x=number[p];
23        number[p]=number[j];
24        number[j]=x;
25        quicksort(number,first,j-1);
26        quicksort(number,j+1,last);
27    }
```

Input

Enter 3 elements: 23
45
12
Sorted elements: 12 23 45

...Program finished with exit code 0
Press ENTER to exit console.

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