

## SELECTION SORT

```
#include <stdio.h>
void selectionSort(int arr[], int n){
    int i, j, minIndex, temp;
    for (i = 0; i < n - 1; i++) {
        minIndex = i;
        for (j=i+1;j<n;j++) {
            if (arr[j]<arr[minIndex]) {
                minIndex=j;
            }
        }
        temp=arr[i];
        arr[i]=arr[minIndex];
        arr[minIndex]=temp;
    }
}
int main(){
    int arr[100],n,i;
    printf("Enter the no of element: ");
    scanf("%d",&n);
    printf("Enter the element of the ");
    for(i=0;i<n;i++){
        scanf("%d",&arr[i]);
    }
    selectionsort(arr,n);
    printf("The sorted array:");
    for(i=0;i<n;i++){
        printf("%d ",arr[i]);
    }
}
```

OUTPUT:

```
Enter the no of element: 5
Enter the element of the 1 4 6 9 2
The sorted array:1 2 4 6 9
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Process exited after 23.37 seconds with return value 0
Press any key to continue . . .
```