```
//Created By Ritwik Chandra Pandey on 6/11/21
//Selection Sort: : Largest Element Method
/*The working procedure for selection sort largest element method is as follows:
```

- 1. Let us consider an array of **n** elements (i.e., **a[n]**) to be sorted.
- 2. In the first step, the **largest element** in the list is searched. Once the largest element is found, it is exchanged with the element which is placed at the **last position**. This completes the first pass.
- 3. In the next step, it searches for the **second largest element** in the list and it is interchanged with the element placed at **second largest position**. This is done in second pass.
- 4. This process is repeated for **n 1** passes to sort all the elements. \*/

```
#include<stdio.h>
void main() {
        int a[20], i, n, j, large, index;
        printf("Enter value of n : ");
        scanf("%d", &n);
        for (i=0;i<n;i++) {
                printf("Enter element for a[%d]: ", i);
               scanf("%d", &a[i]);
        printf("Before sorting the elements in the array are\n");
        for (i=0;i<n;i++) {
                printf("Value of a[%d] = %d\n", i, a[i]);
       for (i=n-1;i>=1;i--) {
               index = i;
               for (j=i;j>=0;j--) {
                        if (a[i]>a[index]) {
                                index = j;
               large=a[index]:
                a[index] = a[i];
                a[i] = large;
```

```
}
printf("After sorting the elements in the array are\n");
for (i=0;i<n;i++) {
    printf("Value of a[%d] = %d\n", i, a[i]);
}</pre>
```