// Selection in an Array:

```c
#include <stdio.h>
#include <stdlib.h>

int main()
{

    int ArraySize;
    printf("Enter the value of array size: ");
    scanf("%d",&ArraySize);//input array size
    int a[ArraySize];
    for(int i=0;i<ArraySize;i++){
    printf("Enter array value: ");
    scanf("%d",&a[i]);//input array value
    }
    a[ArraySize];

    for(int i = 0; i<ArraySize-1;i++){
      int minimum = i;
      for(int j = i+1; j <ArraySize; j++){
        if(a[j]<a[minimum]){
          minimum = j;
        }

      }
      // Swapping
      int temp = a[minimum];
      a[minimum] = a[i];
```
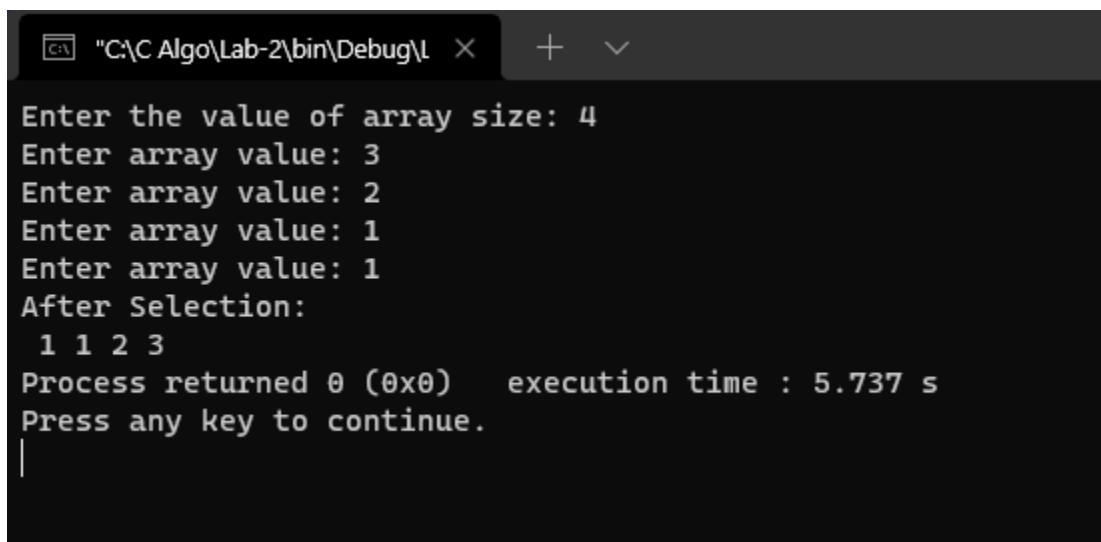
```
    a[i] = temp;

  }

  printf("After Selection: \n");

  for(int i = 0; i<ArraySize;++i){

    printf(" %d", a[i]);

  }


  return 0;

}
```

Output:


```
Enter the value of array size: 4
Enter array value: 3
Enter array value: 2
Enter array value: 1
Enter array value: 1
After Selection:
 1 1 2 3
Process returned 0 (0x0)   execution time : 5.737 s
Press any key to continue.
```

Time Complexity:

Best - $O(n^2)$

Worst - $O(n^2)$

Space Complexity - $O(1)$