```
1 #include<stdio.h>
 3 int findMin(int *A,int start,int end)
 4 {
 5
       int i;
 6
       int min=A[start];
 7
       int minIndex;
 8
 9
       for(i=start+1;i<=end;i++)</pre>
10
11
         if(A[i]<min)</pre>
12
          {
               min=A[i];
13
              minIndex=i;
14
15
16
17
18
19
       return minIndex;
20 }
21
22 void swap(int *A,int a,int b)
23 {
      int temp;
24
25
      temp=A[a];
      A[a]=A[b];
26
27
       A[b]=temp;
28 }
29
30 void SelectionSort(int *A,int n)
31 {
32
       //select the min and place it at position i;
33
34
      int i=0;
35
      for(i=0;i<n;i++)</pre>
36
37
          int index=findMin(A,i,n);
38
          swap(A,index,i);
39
40 }
41
42 void main()
43
       int A[]={5,4,6,1,9,7,0,2,10,8,3};
44
45
       int size=sizeof(A)/sizeof(int);
      int i=0;
46
       printf("**************Input Array*************\n\n");
47
48
       for (i=0;i<size;i++)</pre>
49
50
           printf("%5d",A[i]);
51
52
       SelectionSort(A, size-1);
53
      printf("\n**************Sorted Array************\n\n");
54
       for (i=0;i<size;i++)</pre>
55
56
57
           printf("%5d",A[i]);
58
59 }
```