```
#include <stdio.h>
 #include <stdlib.h>
5 int smallest(int arr[], int k, int n);
7 void selection_sort(int arr[], int n);
8 void main(int argc, char *argv[])
9 {
10 int arr[10], i, n;
11 printf("\n Enter the number of elements in the array: ");
12 scanf("%d", &n);
3 printf("\n Enter the elements of the array: ");
[4 for(i=0;i<n;i++) { scanf("%d", &arr[i]); }</pre>
15 selection_sort(arr, n);
l6 printf("\n The sorted array is: \n");
7 for(i=0;i<n;i++) printf(" %d\t", arr[i]);</pre>
18 }
19 int smallest(int arr[], int k, int n)
20 { int pos = k, small=arr[k], i;
1 for(i=k+1;i<n;i++)
3 if(arr[i]< small)</pre>
     small = arr[i];
                          pos = i; }
6 return pos;
7 }
void selection_sort(int arr[],int n)
9 {
30 int k,
1 pos,
temp;
3 for(k=0;k<n;k++)
35 pos = smallest(arr, k, n);
36 \text{ temp} = arr[k];
37 \operatorname{arr}[k] = \operatorname{arr}[\operatorname{pos}];
38 arr[pos] = temp;
39 }
40 }
dl0411@itadmin:~$ ./a.out
Enter the number of elements in the array: 6
Enter the elements of the array: 66 11 22 44 1 55
The sorted array is:
                                                           dl0411@itadmin:~$
 1
          11
                     22
                              44
                                        55
                                                  66
```