

```
1  #include <math.h>
2  #include <stdio.h>
3
4  void insertionSort(int arr[], int n)
5  {
6      int i, key, j;
7      for (i = 1; i < n; i++)
8      {
9          key = arr[i];
10         j = i - 1;
11
12         while (j >= 0 && arr[j] > key)
13         {
14             arr[j + 1] = arr[j];
15             j = j - 1;
16         }
17         arr[j + 1] = key;
18     }
19 }
20
21
22
23 void printArray(int arr[], int n)
24 {
25     int i;
26     for (i = 0; i < n; i++)
27         printf("%d ", arr[i]);
28     printf("\n");
29 }
30
31
32 int main()
33 {
34     int arr[] = {12, 11, 13, 5, 6};
35     int n = sizeof(arr) / sizeof(arr[0]);
36
37     insertionSort(arr, n);
```



```
5 {
6     int i, key, j;
7     for (i = 1; i < n; i++)
8     {
9         key = arr[i];
10        j = i - 1;
11
12        while (j >= 0 && arr[j] > key)
13        {
14            arr[j + 1] = arr[j];
15            j = j - 1;
16        }
17        arr[j + 1] = key;
18    }
19 }
20
21
22
23 void printArray(int arr[], int n)
24 {
25     int i;
26     for (i = 0; i < n; i++)
27         printf("%d ", arr[i]);
28     printf("\n");
29 }
30
31
32 int main()
33 {
34     int arr[] = {12, 11, 13, 5, 6};
35     int n = sizeof(arr) / sizeof(arr[0]);
36
37     insertionSort(arr, n);
38     printArray(arr, n);
39
40     return 0;
41 }
```



C:\Users\Dell\Documents\quea operation.exe

Queue using Array

1.Insertion

2.Deletion

3.Display

4.Exit

Enter the Choice:6

Wrong Choice: please see the options

Enter the Choice: _



18:09
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