

```
// insert a new element in the given unsorted array at kth
position.cpp : This file contains the 'main' function. Program
execution begins and ends there.
//
```

```
#include <iostream>
using namespace std;
```

```
int insertUnsorted(int arr[], int n, int key, int size)
{
    arr[n] = key;
    return n + 1;
}
```

```
int main()
{
    int arr[5] = { 12,16,20 };
    int size = sizeof(arr) / sizeof(arr[0]);
    int length = 3;
    int key = 80;

    cout << "Before insertion " << endl;
    for (int i = 0; i < length; i++)
        cout << arr[i] << " ";
    length = insertUnsorted(arr, length, key, size);

    cout << "After insertion " << endl;
    for (int i = 0; i < length; i++)
        cout << arr[i] << " ";

    return 0;
}
```