

DSA_College\bubbleSort.cpp

```
1  #include<iostream>
2  using namespace std ;
3
4  void BS(int arr[], int n)
5  {
6      // Base case: if the size is 1, the array is already sorted
7      if(n == 1)
8      {
9          return ;
10     }
11     for(int i=0;i<n-1;i++)
12     {
13         if(arr[i] > arr[i+1])
14         {
15             swap(arr[i],arr[i+1]) ;
16         }
17     }
18     // Recursive call to sort the remaining elements
19     BS(arr,n-1) ;
20 }
21
22 void print(int arr[], int n)
23 {
24     for(int i=0;i<n;i++)
25     {
26         cout<<arr[i]<<" " ;
27     }
28     cout<<endl;
29 }
30
31 int main()
32 {
33     int arr[6] = {2,6,1,9,4,0} ;
34     BS(arr,6) ;
35     print(arr,6) ;
36     return 0;
37 }
```