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Written by Sai Sandeep Thota on April 3, 2013 in [C++](#) > [Programming](#)


# C++ Program to Implement Bubble Sort using Templates

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We have already implemented [Bubble sort](#) without using Function Templates. Template is a powerful feature of Object oriented programming. They give the flexibility to a programmer for using any data type in a function without rewriting the whole boring function for each data type again and again.

Here in this program we have written a function for Bubble sort and we have added a `template` tag before the function so that, the parameter will be of the data type Name. Everything is same except some variable data types. Take a look at the below program, you'll get a clear idea.

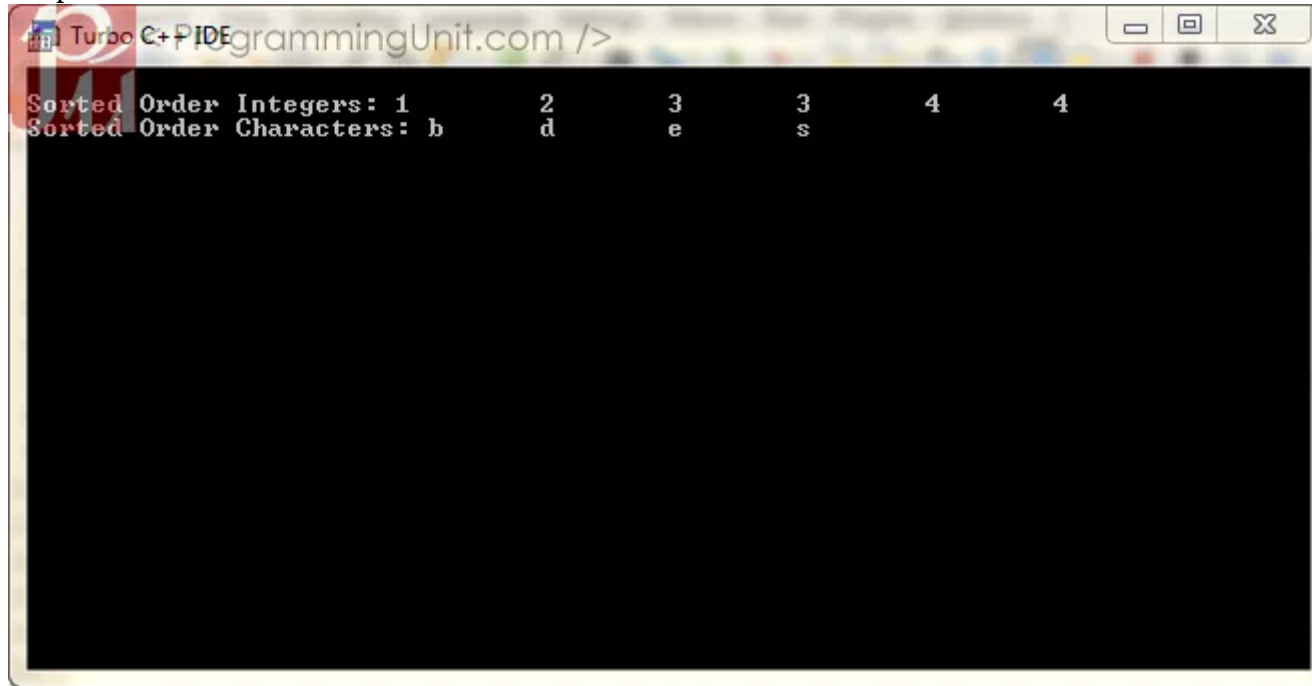
In the main function we are passing some predefined values into the bubble function by calling the function `bubble(a,6)` where **a** is the array containing integers and **6** is the size of array. After passing the values into the function we are displaying the sorted order. You can also rewrite the main function in a way that the user will enter the data and size of the array.

```

1  #include<conio.h>
2  #include<iostream.h>
3
4  template<class bubble>
5  void bubble(bubble a[], int n)
6  {
7      int i, j;
8      for(i=0;i<n-1;i++)
9      {
10         for(j=i+1;j<n;j++)
11         {
12             if(a[i]>a[j])
13             {
14                 bubble element;
```

```
15         element = a[i];
16         a[i] = a[j];
17         a[j] = element;
18     }
19 }
20 }
21 }
22
23 void main()
24 {
25     int a[6]={1,2,3,4,4,3};
26     char b[4]={'s','b','d','e'};
27     clrscr();
28     bubble(a,6);
29     cout<<"\nSorted Order Integers: ";
30     for(int i=0;i<6;i++)
31         cout<<a[i]<<"\t";
32     bubble(b,4);
33
34     cout<<"\nSorted Order Characters: ";
35     for(int j=0;j<4;j++)
36         cout<<b[j]<<"\t";
37     getch();
38 }
```

Output:



```
Turbo C++ IDE
ProgrammingUnit.com />
Sorted Order Integers: 1 2 3 3 4 4
Sorted Order Characters: b d e s
```

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thank u,it worked unlike other programs on net.....

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