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## A Generic bubble sort : generic sort « template « C++ Tutorial



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```
#include <iostream>
using namespace std;
template <class X> void bubble(X *items,int count)
 xt;
  for(int a=1; a<count; a++)</pre>
    for(int b=count-1; b>=a; b--)
      if(items[b-1] > items[b]) {
        t = items[b-1];
        items[b-1] = items[b];
        items[b] = t;
}
int main()
{
  int iarray[7] = \{7, 5, 4, 3, 9, 8, 6\};
  double darray[5] = \{4.3, 2.5, -0.9, 10.2, 3.0\};
  cout << "Here is unsorted integer array: ";</pre>
  for(int i=0; i<7; i++)
    cout << iarrav[i] << ' ';</pre>
  cout << endl;
  bubble(iarray, 7);
  cout << "Here is sorted integer array: ";</pre>
  for(int i=0; i<7; i++)</pre>
    cout << iarray[i] << ' ';</pre>
  cout << endl;
  cout << "Here is unsorted double array: ";</pre>
  for(int i=0; i<5; i++)</pre>
    cout << darray[i] << ' ';</pre>
  cout << endl;
  bubble(darray, 5);
```

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```
cout << "Here is sorted double array: ";
for(int i=0; i<5; i++)
  cout << darray[i] << ' ';
cout << endl;
return 0;
}</pre>
```

```
Here is unsorted integer array: 7 5 4 3 9 8 6
Here is sorted integer array: 3 4 5 6 7 8 9
Here is unsorted double array: 4.3 2.5 -0.9 10.2 3
Here is sorted double array: -0.9 2.5 3 4.3 10.2
```

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