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/*
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Batch   :       A
Experiment no.: 06
Title   :       C++ program for Sorting an integer and Float array using template
*/
//Program:
#include<iostream>
using namespace std;
template<class T>
void bubble(T a[],int n)
{
        int i,j;
        for(i=0;i<n-1;i++)
        {
                for(j=i+1;j<n;j++)
                {
                        if(a[i]>a[j])
                        {
                                T temp;
                                temp=a[i];
                                a[i]=a[j];
                                a[j]=temp;
                        }
                }
        }
}
int main()
{
```

```cpp
        int a[10],m,i,n;
        float b[10];
        cout<<"Enter size of integers in array"<<endl;
        cin>>m;
        cout<<"Enter the integer values: "<<endl;
        for(i=0;i<m;i++)
        {
                cin>>a[i];
        }
        bubble(a,m);
        cout<<"Sorted Ordered Integers: "<<endl;
        for(i=0;i<m;i++)
        {
                cout<<a[i]<<endl;
        }
        cout<<"Enter size of floats in array"<<endl;
        cin>>n;
        cout<<"Enter the float values: "<<endl;
        for(i=0;i<n;i++)
        {
                cin>>b[i];
        }
        bubble(b,n);
        cout<<"Sorted Ordered Float: "<<endl;
        for(i=0;i<m;i++)
        {
                cout<<b[i]<<endl;
        }
    return 0;
}
```

```
/*
```

OUTPUT:

Enter the integer values:

63

32

15

26

20

Sorted Ordered Integers:

15

20

26

32

63

Enter size of floats in array

5

Enter the float values:

3.2

3.6

5.3

1.2

1.9

Sorted Ordered Float:

1.2

1.9

3.2

3.6

5.3

```
*/
```