

Roll no:7

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practical No:1

bubble_07.cpp

```
#include <iostream>
#define MAX 200
using namespace std;

class abc{
public:
int arr[MAX];
int n;

void input();
void bubblesort();
void display();
};

void abc::input(){
cout<<"enter the number of elements you want to enter"<<endl;
cin>>n;
cout<<"Enter the elements in the array"<<endl;

for(int i=0;i<n;i++){
cin>>arr[i];
}

}

void abc::bubblesort()
{
for(int i=0;i<n;i++)
{
cout<<"PASS"<<" "<<i<<" ";
for(int k=0;k<n;k++)
{
cout<<arr[k]<<" ";
}
for(int j=0;j<n-1;j++)
{
if(arr[j]>arr[j+1])
{
int temp;
temp=arr[j];
arr[j]=arr[j+1];
arr[j+1]=temp;
}
}
}
cout<<endl;
```

```
}
```

```
}
```

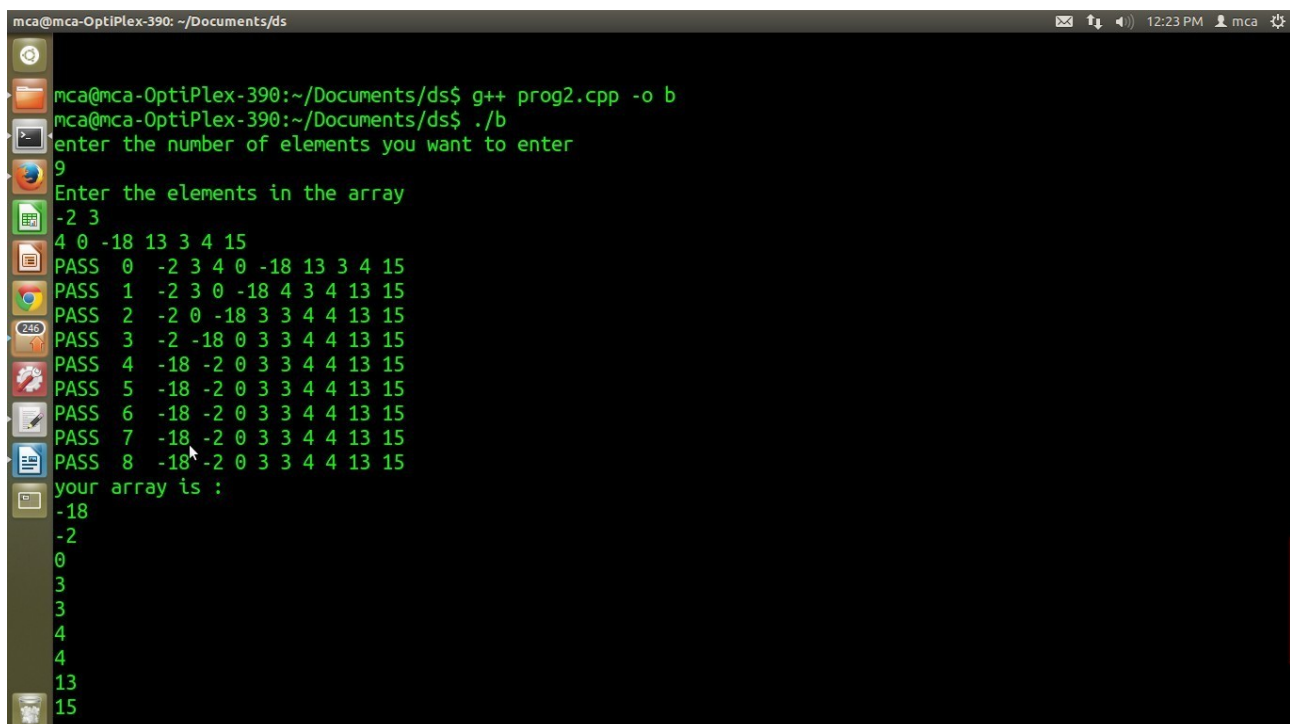
```
void abc::display(){  
cout<<"your array is : "<<endl;
```

```
for(int i=0;i<n;i++){  
cout<<arr[i]<<endl;  
}  
}
```

```
int main()  
{  
abc c;
```

```
c.input();  
c.bubblesort();  
c.display();  
return 0;  
}
```

output:



```
mca@mca-OptiPlex-390: ~/Documents/ds  
mca@mca-OptiPlex-390:~/Documents/ds$ g++ prog2.cpp -o b  
mca@mca-OptiPlex-390:~/Documents/ds$ ./b  
enter the number of elements you want to enter  
9  
Enter the elements in the array  
-2 3  
4 0 -18 13 3 4 15  
PASS 0 -2 3 4 0 -18 13 3 4 15  
PASS 1 -2 3 0 -18 4 3 4 13 15  
PASS 2 -2 0 -18 3 3 4 4 13 15  
PASS 3 -2 -18 0 3 3 4 4 13 15  
PASS 4 -18 -2 0 3 3 4 4 13 15  
PASS 5 -18 -2 0 3 3 4 4 13 15  
PASS 6 -18 -2 0 3 3 4 4 13 15  
PASS 7 -18 -2 0 3 3 4 4 13 15  
PASS 8 -18 -2 0 3 3 4 4 13 15  
your array is :  
-18  
-2  
0  
3  
3  
4  
4  
13  
15
```