```
#include <iostream>
#include <iomanip>
using namespace std;
class Weather
public:
       int Sno, temp;
       float time_stamp;
       string city;
void input(int i)
  Sno = i + 1;
  cout << "\n S No. : " << Sno ;
  cout << "\n\n Enter City Name : ";</pre>
  cin >> city;
  cout << " Enter Time Stamp : ";
  cin >> time_stamp ;
  cout << " Enter Temperature : ";</pre>
  cin >> temp;
 }
void output()
       cout << Sno << setw(25) << city << setw(25) << time_stamp << setw(25) << temp;
 }
};
void insertion_sort(Weather arr[], int n)
 int i, j;
 Weather element;
 for (i = 1; i < n; i++)
  element = arr[i];
  j = i - 1;
```

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while (j > -1 \&\& arr[j].city > element.city)
      arr[j + 1] = arr[j];
      j-- ;
    }
  arr[j + 1] = element;
}
int main()
 int n;
 cout << "\n\n Program to sort the Weather Data on cities ";</pre>
 cout << "\n\n Enter the no. of rows:";
 cin >> n;
 Weather W[n];
 cout << "\n\n Enter Data : ";</pre>
 for (int i = 0; i < n; ++i)
         W[i].input(i);
 }
 cout << "\n Data : \n\n";
 cout << "S no." << setw(25) << "City" << setw(25) << "Time Stamp" << setw(25) << "Temp.(C)"
 for (int i = 0; i < n; ++i)
        cout << endl;
  W[i].output();
 }
 insertion_sort(W,n);
 cout << "\n\n Data after Sorting : \n\n" ;</pre>
 cout << "S no." << setw(25) << "City" << setw(25) << "Time Stamp" << setw(25) << "Temp.(C)"
```

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

return 0;
}</pre>
```