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#include <iostream>
#include <iomanip>
using namespace std;
const int MAX = 30;
class FlightClass
    FlightClass *link;
    string city_name;
    int duration;
public:
    friend class graph_class;
    FlightClass()
    {
        link = NULL;
        city_name = " ";
        duration = -1;
    FlightClass(string city name, int weight)
        link = NULL;
        this->city_name = city_name;
        duration = weight;
    }
};
class graph_class
    FlightClass *head[MAX];
    int n;
public:
    graph_class(int num)
        n = num;
        for (int i = 0; i < n; i++)
            head[i] = NULL;
    void insert(string first_city, string second_city, int time);
    void readdata();
    int getindex(string s1);
    void display();
};
int graph_class::getindex(string s1)
    for (int i = 0; i < n; i++)
    {
```

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if (head[i]->city name == s1)
             return i;
    return -1;
}
void graph class::insert(string first city, string second city, int time)
    FlightClass *from;
    FlightClass *to = new FlightClass(second city, time);
    int ind = getindex(first city);
    from = head[ind];
    while (from->link != NULL)
        from = from->link;
    from->link = to:
}
void graph class::display()
    FlightClass *from;
    for (int i = 0; i < n; i++)
    {
        from = head[i];
        while (from != NULL)
        {
            cout << from->city name << "->";
            from = from->link;
        cout << "NULL" << endl;</pre>
}
void graph_class::readdata()
    string first_city, second_city, tmpcity;
    int flight, fcost;
    cout << "\nEnter Details of City:\n";</pre>
    for (int i = 0; i < n; i++)
        head[i] = new FlightClass;
        cout << "\nEnter name of city " << i + 1 << ":";</pre>
        cin >> head[i]->city name;
    cout << "\nEnter Number of Flights : ";</pre>
    cin >> flight;
    for (int i = 0; i < flight; i++)</pre>
    {
        cout << "\nEnter Source :";</pre>
        cin >> first city;
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cout << "\nEnter Destination :";</pre>
        cin >> second_city;
        cout << "\nEnter Time :";</pre>
        cin >> fcost,
             insert(first_city, second_city, fcost);
    }
int main()
    int number, choice;
    cout << "\nEnter Number of Airport Stations : ";</pre>
    cin >> number;
    graph_class gl(number);
    do
    {
        cout << "\n****Menu*****\nl.Insert Flight detail\n2.Display\n3.Exit\nSelec</pre>
        cin >> choice;
        switch (choice)
        case 1:
             gl.readdata();
             break;
        case 2:
             cout << "\n*Adjacency List*" << endl;</pre>
             gl.display();
             break;
        default:
             cout << "\nInvalid Choice";</pre>
    } while (choice != 3);
    return 0;
}
```