```cpp
// Replace word

#include<bits/stdc++.h>
using namespace std;
int main()
{
    int t; cin >> t;
    while(t--)
    {
        string x; cin >> x;
        string y; cin >> y;
        while(x.find(y) != -1)
        {
            x.replace(x.find(y), y.size(), "#");
        }
        cout << x << endl;
    }
    return 0;
}


//Find Jessica

#include<bits/stdc++.h>
using namespace std;
int main()
{
    string str; getline(cin, str);
    stringstream ss(str);
    string word;
    bool flag = false;
    while(ss >> word)
    {
        if(word == "Jessica")
        {
            flag = true;
            break;
        }
    }
    flag ? cout << "YES" << endl : cout << "NO" << endl;
    return 0;
}
```

```cpp
// Reverse IT

#include<bits/stdc++.h>
using namespace std;
int main()
{
    string str; getline(cin, str);
    stringstream ss(str);
    string word;
    bool flag = false;
    while(ss >> word)
    {
        if(word == "Jessica")
        {
            flag = true;
            break;
        }
    }
    flag ? cout << "YES" << endl : cout << "NO" << endl;
    return 0;
}
```

Sort

```cpp
#include<bits/stdc++.h>
using namespace std;
class Student
{
    public:
        string name;
        int cls;
        char sec;
        int id;
        int m_m;
        int e_m;
        int tt = 0;
};
bool cmp(Student a, Student b)
{
    if(a.tt > b.tt) return true;
    else if(a.tt < b.tt) return false;
    else
    {
```

```cpp
        return a.id < b.id;
    }
}
int main()
{
    int n; cin >> n;
    Student a[n];
    for(int i= 0; i < n; i++)
    {
        cin >> a[i].name >> a[i].cls >> a[i].sec >> a[i].id >> a[i].m_m >> a[i].e_m;
        a[i].tt = a[i].m_m + a[i].e_m;
    }

    sort(a, a + n, cmp);
    for(int i= 0; i < n; i++)
    {
        cout << a[i].name << " " <<  a[i].cls << " " << a[i].sec << " " << a[i].id << " " << a[i].m_m << "
" << a[i].e_m << endl;
    }
    return 0;
}


//Sort IT Again

#include<bits/stdc++.h>
using namespace std;
class Student
{
    public:
        string name;
        int cls;
        char sec;
        long long int id;
        int m_m;
        int e_m;
};
bool cmp(Student a, Student b)
{
    if(a.e_m > b.e_m) return true;
    else if(a.e_m < b.e_m) return false;
    else
    {
        if(a.m_m > b.m_m) return true;
```

```cpp
        else if(a.m_m < b.m_m) return false;
        else return a.id < b.id;
    }
}
int main()
{
    int n; cin >> n;
    Student a[n];
    for(int i= 0; i < n; i++)
    {
        cin >> a[i].name >> a[i].cls >> a[i].sec >> a[i].id >> a[i].m_m >> a[i].e_m;
    }

    sort(a, a + n, cmp);
    for(int i= 0; i < n; i++)
    {
        cout << a[i].name << " " <<  a[i].cls << " " << a[i].sec << " " << a[i].id << " " << a[i].m_m << "
" << a[i].e_m << endl;
    }
    return 0;
}
```