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#include<bits/stdc++.h>

#include<stdio.h>

using namespace std;

class String

{

    private:

        char \*array;

    public:

        void getstring()

        {

            char \*temp = new char [20];

            cout<<"Enter new string"<<endl;

            cin.getline(temp,20);

            int i=0;

            while(temp[i]!='\0')

            {

                i++;

            }

            array = new char[i];

            i=0;

            while(temp[i]!='\0')

            {

                array[i] = temp[i];

                i++;

            }

            array[i]='\0';

            delete[] temp;

        }

        void printstring()

        {

            int i=0;

            while(array[i]!='\0')

            {

                cout<<array[i];

                i++;

            }cout<<"\n";

        }

        String operator+(String str)

        {

            String temp;

            temp.array = new char[strlen(str.array) + strlen(array)] ;

            int i=0;

            while(array[i]!='\0')

                temp.array[i]=array[i++];

            int ind=0;

            while(str.array[ind]!='\0')

                temp.array[i++] = str.array[ind++];

            temp.array[i]='\0';

            return temp;

        }`

        void operator=(String str)

        {

            delete[] array;

            array = new char[strlen(str.array)];

            int i=0;

            while(str.array[i]!='\0')

                array[i]= str.array[i++];

            array[i]='\0';

        }

        bool operator==(String str)

        {

            if(strlen(array)==strlen(str.array))

            {

                int i=0;

                while(array[i]!='\0')

                {

                    if(array[i]==str.array[i])

                    {

                        i++;

                    }

                    else

                    {

                        break;

                    }

                }

                if(i == strlen(array))

                    return true;

                else

                    return false;

            }

            else

            {

                return false;

            }

        }

};

int main()

{

    String s1;

    s1.getstring();

    s1.printstring();

    String s2;

    s2.getstring();

    s2.printstring();

    String s3;

    s3 = s1 + s2;

    cout<<"Added string is:"<<endl;

    s3.printstring();

    String s4;

    s4 = s1;

    cout<<"Copied string is:"<<endl;

    s4.printstring();

    bool b = (s1 == s2);

    if(b==false)

        cout<<"String is Not same";

    else

        cout<<"String is same";

}

OUTPUT:

Enter the string

satvik

satvik

Enter the string

dandale

dandale

Added string is:

satvikdandale

Copied string is:

satvik

String is Not same