#include<iostream>

using namespace std;

char str1[20],str2[20],i,j,l;

class string

{

public:

void cpy(char str2[20],char str1[20])

{cout<<"\nCopied string is:\t";

for(i=0;str1[i]!='\0';i++)

{

str2[i]=str1[i];

cout<<str2[i];

}

str2[i]='\0';

cout<<"\n";

}

int len(char str1[20])

{

int l=0;

for(i=0;str1[i]!='\0';i++)

{

l++;

}

cout<<"\nLength:\t"<<l;

cout<<"\n";

}

void equal(char str1[20])

{

int a=0,le;

cout<<"\nEnter second string:\t";

cin>>str2;

for(le=0;str2[le]!='\0';le++);

for(i=0;str1[i]!='\0';i++)

{

if(str1[i]==str2[i])

a++;

}

if(str1[i]=='\0'&&str2[i]=='\0')

if(a==le)

{

cout<<"\nBoth are equal\n";

}

else

{ cout<<"\nNot equal"; }

}

int rev(char str1[20])

{

int p=0;

for(i=0;str1[i]!='\0';i++)

p++;

cout<<"\nReverse string is: \n";

for(i=p-1;i>=0;i--)

{

cout<<str1[i];

}

cout<<"\n";

}

void conc(char str1[20])

{

cout<<"\nEnter the second string:\t";

cin>>str2;

for(i=0;str2[i]!=0;i++);

for(j=0;str1[j]!=0;j++)

{

str2[i]=str1[j];

i++;

}

str2[i]='\0';

cout<<"\nConcatenated string:\t"<<str2;

}

void sub(char str1[20])

{

int j,le;

cout<<"\nEnter second string\n";

cin>>str2;

for(le=0;str2[le]='\0';le++)

for(i=0,j=0;str1[i]!='\0',str2[j]!='\0';i++)

{

if(str1[i]==str2[j])

j++;

else

j=0;

}

if(le==j)

cout<<"\nEntered string is substring";

else

cout<<"\nNot a substring";

}

}A;

int main()

{

int op;

char ch;

cout<<"\nEnter string 1: \n";

cin>>str1;

do

{

cout<<"\nEnter the operation:\n\n1.copy\n2.length\n3.equal\n4.reverse\n5.concatenation\n6.substring\n\n";

cin>>op;

switch(op)

{

case 1: A.cpy(str2,str1);

break;

case 2: A.len(str1);

break;

case 3: A.equal(str1);

break;

case 4: A.rev(str1);

break;

case 5: A.conc(str1);

break;

case 6: A.sub(str1);

break;

}

cout<<"\nDo you wish to continue (y/n):";

cin>>ch;

}

while(ch=='y'||ch=='Y');

return 0;

}