#include<iostream>

using namespace std;

class stack{

private:

int top;

int stk[10];

public:

stack(){

top=-1;

}

void push(int a){

if(top==9){

cout<<"stack is overflow";

system ("pause");

return;

}

top=top+1;

stk[top]=a;

}

void pop(){

int num;

if (top==-1){

cout<<"stack is empty";

system ("pause");

return;

}

val=stk[top];

stk[top] = null;

top = top -1;

cout<<"value"<< val<<" is removed "<<endl;

}

void diplay(){

if (top==-1){

cout<<"stack is empty"<<endl;

system("pause");

return;

}

for(int i=top;i>=0;i--)

cout<<stk[i]<<endl;

}

};

main(){

stack s;

int num,op;

char choice;

do{

system("cls");

cout<<"1- pushing stack"<<endl;

cout<<"2- popping stack"<<endl;

cout<<"3- display stack"<<endl;

cout<<"4- exist stack"<<endl;

cin>>op;

switch(op){

case 1:

cout<<"enter the value to insert:";

cin>>num;

s.push(num);

break;

case 2:

s.pop();

break;

case 3:

cout<<"stack value"<<endl;

s.diplay();

break;

}

cout<<"do you want to continue or exist?";

cin>>choice;

}

while(choice=='y');

}