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#include <iostream>
using namespace std;
int stack[100], n=100, top=-1;
void push(int val) {
    if(top>=n-1)
        cout<<"Stack Overflow"<<endl;
    else {
        top++;
        stack[top]=val;
    }
}
void pop() {
    if(top<=-1)
        cout<<"Stack Underflow"<<endl;
    else {
        cout<<"The popped element is "<< stack[top] <<endl;
        top--;
    }
}
void display() {
    if(top>=0) {
        cout<<"Stack elements are:";
        for(int i=top; i>=0; i--)
            cout<<stack[i]<<" ";
        cout<<endl;
    } else
        cout<<"Stack is empty";
}
int main() {
    int ch, val;
    cout<<"1) Push in stack"<<endl;
    cout<<"2) Pop from stack"<<endl;
    cout<<"3) Display stack"<<endl;
    cout<<"4) Exit"<<endl;
    do {
        cout<<"Enter choice: "<<endl;
        cin>>ch;
        switch(ch) {
            case 1: {
                cout<<"Enter value to be pushed:"<<endl;
                cin>>val;
                push(val);
                break;
            }

```

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    case 2: {
        pop();
        break;
    }
    case 3: {
        display();
        break;
    }
    case 4: {
        cout<<"Exit"<<endl;
        break;
    }
    default: {
        cout<<"Invalid Choice"<<endl;
    }
}
}while(ch!=4);
return 0;
}
```