

Seatwork 4.1 : Stacks	
<Replace with Title>	
Course Code: CPE010	Program: Computer Engineering
Course Title: Data Structures and Algorithms	Date Performed: 08/12/25
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6. Output

stack.cpp

```
1  #include <iostream>
2  #include <stack>
3  using namespace std;
4
5  void showstack(stack<int> s)
6  {
7      while (!s.empty())
8      {
9          cout<<'t' << s.top();
10         s.pop();
11     }
12     cout <<'\n';
13 }
14
15 int main ()
16 {
17     stack<int> s;
18     s.push(10);
19     s.push(30);
20     s.push(20);
21     s.push(5);
22     s.push(1);
23     cout<<"The stack is :";
24     showstack(s);
25
26     cout <<"\ns.size() : " << s.size();
27     cout <<"\ns.top() : " << s.top();
28
29     cout << "\ns.pop() ; ";
30     s.pop();
31     showstack(s);
32
33     return 0;
34 }
35
```

C:\Users\TIPQC\Desktop\stac

```
The stack is : 1      5      20      30      10

s.size() : 5
s.top() : 1
s.pop() ;      5      20      30      10

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Process exited after 0.01594 seconds with return value 0
Press any key to continue . . .
```

8. Conclusion

So here it shows the principle of a stack by pushing a series of numbers and then using a helper function to show how the last number we added is the first one to be removed.

9. Assessment Rubric