

Activity No. <n>	
Seatwork 4.1 : Stacks	
Course Code: CPE010	Program: Computer Engineering
Course Title: Data Structures and Algorithms	Date Performed: 8/12/2025
Section: CPE21S4	Date Submitted:
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6. Output

ProjectClassesDebug

Untitled1.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 int main ()
15 {
16     stack <int> s;
17     s.push(10);
18     s.push(30);
19     s.push(20);
20     s.push(5);
21     s.push(1);
22     cout<<"The stack is:";
23     showstack(s);
24
25     cout <<"ns.size() : " << s.size();
26     cout <<"\\ns.top() ; ";
27     s.pop();
28     showstack(s);
29
30     return 0;
31 }
32
```

C:\Users\TIPQC\Desktop

The stack is: 152030
10
ns.size() : 5
s.top() ; 5203010

Process exited after 0.0114 seconds with return value 0
Press any key to continue . . . |

CompilerResourcesCompile LogDebugFind ResultsClose

Compilation results...

Abort Compilation

☐ Shorten compiler paths

- Errors: 0

- Warnings: 0

- Output Filename: C:\Users\TIPQC\Desktop\projects\Untitled1.exe

- Output Size: 1.81035995483398 MiB

- Compilation Time: 0.52s

8. Conclusion

The code shows how to use a stack in C++ STL using the simplest form which includes pushing, popping and viewing the stack. This is one of the methods to have a good mental image for how the stack works in runtime.

9. Assessment Rubric