

COP 3502 Section 2 Exam #1 - Part D (Stacks) Solution

Date: 6/8/2020

Start Time: 5:25 pm EST

End Time: 5:55 pm EST

1) (10 pts) Evaluate the following postfix expression, showing the state of the operand stack at the three points A, B and C indicated below:

Solution

2 7 * 18 4 ^A 5 + / / 6 ^B 4 * 3 / ^C + 3 /

4
18
14

A

6
7

B

8
7

C

Value of the Expression: 5

Grading: 3 pts for each stack, 1 pt for the final answer, just take off 1 or 2 pts for an error and don't continue to take off for it. So, if the first stack is incorrect, take off 1 or 2 pts for it, but then don't take off anything if the following two stacks and answer are consistent with their first stack.

