

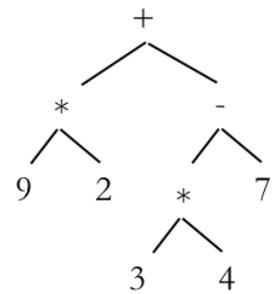
9.1

Score: _____

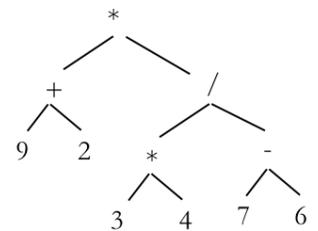
1. Evaluate $2 + 3 * 4 - 1$

2. Evaluate $4 * 1 - 3 + 2 * 1$

3. What does this AST evaluate to?

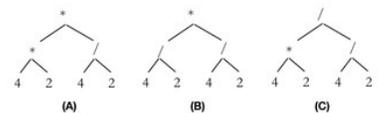


4. What does this AST evaluate to?



5. Which of the following ASTs does **not** evaluate to 4?

- A
- B
- C



6. Starting with an empty stack, what are the stack contents after the following operations are performed, given the input string of 123456? Note, in the answers below, the **first** item is the **bottom** of the stack and the **last** item is the top item, that is, the last item added to the stack.

OOOXXOOXO

- A 146
- B 1234
- C 134
- D 6421
- E 631

7. Starting with an empty stack, what are the stack contents after the following operations are performed, given the input string of 123456? Note, in the answers below, the **first** item is the **bottom** of the stack and the **last** item is the top item, that is, the last item added to the stack.

OXOOOXXOO

- A 146
- B 1234
- C 256
- D 234
- E 245