**Learn about Reverse Polish Notation by building a simple calculator**

ELECTRONIC ANSWER DOCUMENT

STUDENT NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. Paste in a partial screenshot showing the whole calculator after entering the expression above and hitting evaluate.
2. Paste in a partial screenshot showing which of the EvaluateAsRPN tests pass, and which fail.
3. Double click on *each test* to examine the test scenario in code. Which operation(s) are causing the failures?
4. Verify that all the EvaluateAsRPN tests pass (the other sets of tests will still fail for now) and paste in a partial screenshot showing this.
5. Paste in a screenshot showing the calculator displaying the full expression and the result.
6. Show your working by sketching a stack and showing the values on the stack at each step. .
7. Paste in a partial screenshot showing the error.

1. Paste in a partial screenshot showing passing and failing tests.
2. Trace though this algorithm on paper using the specific expression shown in the diagram above ( A+B\*C\_D ). What is the order of tokens in the output once the algorithm has been completed?
3. In tracing through the algorithm for that same example, what is the maximum number of operators that are being held on the stack at any point?
4. Paste in a screenshot showing the expression and the result on the calculator
5. Paste in a screenshot showing which tests pass and fail.
6. Looking at the code for the tests that fail, what do they have in common?
7. Paste in a screenshot showing all tests passing.
8. Paste in a screenshot of the calculator showing both the expression and the result