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CS 302 - 1001

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• Section 5, Exercise 1 Report

- Create a test plan involving the execution of 5 expressions for which you must provide the infix and postfix notations, alongside their result in your report document.
 - Example 1:
 - Postfix Expression: 34 + 52/*
 - Infix Expression: (3+4)*(5/2)
 - Result: 17.5
 - *Example 2:*
 - Postfix Expression: 4572 + *
 - Infix Expression: 4 * (5 (7 + 2))
 - Result: −16
 - *Example 3*:
 - Postfix Expression: 5 7 + 6 2 *
 - Infix Expression: (5 + 7) * (6 2)
 - Result: 48
 - *Example 4*:
 - Postfix Expression: 4 2 3 5 1 + * +
 - Infix Expression: 4 + 2 * (3 + 5 1)
 - Result: 18
 - Example 5:
 - Postfix Expression: 2 3 + 4 5 ^ 7 4 * 5 / +
 - Infix Expression: $2 + 3 + (((4^5) * (7 4))/5)$
 - Result: 619.4
- Terminal View:

```
g++ -Wall -std=c++11 postfix.o -lm -o postfix
Abrahams-MacBook-Pro-2:postfix didgit_10$ ./postfix
///// Postfix Arithmetic /////
Enter a postfix arithmetic operation (please include whitespace in-between characters):
3 4 + 5 2 / *
The result is: 17.5
Enter a postfix arithmetic operation (please include whitespace in-between characters):
4 5 7 2 + - *
The result is: -16
Enter a postfix arithmetic operation (please include whitespace in-between characters):
5 7 + 6 2 - *
The result is: 48
Enter a postfix arithmetic operation (please include whitespace in-between characters):
4 2 3 5 1 - + * +
The result is: 18
Enter a postfix arithmetic operation (please include whitespace in-between characters):
2 3 + 4 5 ^ 7 4 - * 5 / +
The result is: 619.4
Enter a postfix arithmetic operation (please include whitespace in-between characters):
```