**AC12001**

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Lab Title: …AC12001 assignment 1: Stacks.………………………………..……….

Test number/date/version: 30/01/2020..………………………………….……..

Test Notes: …Tests run on submitted assignment..……………………………

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| --- | --- | --- | --- |
| **Test Description** | **Test Data** | **Expected result** | **Worked?** |
| Calculate “1 2 + 3 \*” | “1 2 + 3 \*” | 9 |  |
| Calculate “4 2 / 3 +” | “4 2 / 3 +” | 5 |  |
| Calculate “4 3 / 3 +” | “4 3 / 3 +” | 4 |  |
| Calculate “4 2 1 +” | “4 2 1 +” | An error caused by the stack not being empty at the end of the calculation |  |
| Calculate “4 +” | “4 +” | An error caused by the insufficient number of operands |  |
| Calculate “4 2 x” | “4 2 x” | An error caused by the illegal token “x” |  |
| Validate “1 2 + 3 \*” | “1 2 + 3 \*” | True |  |
| Validate “4 2 / 3 +” | “4 2 / 3 +” | True |  |
| Validate “4 2 1 +” | “4 2 1 +” | False |  |
| Validate “4 +” | “4 +” | False |  |
| Validate “4 2 x” | “4 2 x” | False |  |
| Get an infix equivalent of “1 2 + 3 \*” | “1 2 + 3 \*” | An infix equivalent of the expression, such as “((1+2)\*3)” |  |
| Get an infix equivalent of “4 2 / 3 +” | “4 2 / 3 +” | An infix equivalent of the expression, such as “((4/2)+3)” |  |
| Get an infix equivalent of “4 2 1 +” | “4 2 1 +” | An error caused by the stack not being empty at the end of the conversion |  |
| Get an infix equivalent of “4 +” | “4 +” | An error caused by the insufficient number of operands |  |
| Get an infix equivalent of “4 2 x” | “4 2 x” | An error caused by the illegal token “x” |  |
| Get the default token separator | <None> | “ ”(an empty space) |  |
| Get the token separator after setting it to “,” | “,” | “,” |  |
| Calculate “1,2,+” after setting the token separator to “,” | “1,2,+” | 3 |  |
| Validate “1,2,+” after setting the token separator to “,” | “1,2,+” | True |  |
| Get an infix equivalent of “1,2,+” after setting the token separator to “,” | “1,2,+” | An infix equivalent of the expression, such as “(1+2)” |  |