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Project: Programming Assignment #2
Course: CPSC131
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Function: void solvePostfix(string postfixExp)
Input: postfixExp, a string, postfix expression from the user
Return: none, prints value of expression

```
IF CALL isValid with postfixExp
THEN
    FOR i = 0 step 1 to length of postfixExp
    DO
        IF postfixExp at position i = 0
        THEN
            CALL push with 0
        END IF

        IF postfixExp at position i = 1
        THEN
            CALL push with 1
        END IF

        IF postfixExp at position i = 2
        THEN
            CALL push with 2
        END IF

        IF postfixExp at position i = 3
        THEN
            CALL push with 3
        END IF

        IF postfixExp at position i = 4
        THEN
            CALL push with 4
        END IF

        IF postfixExp at position i = 5
        THEN
            CALL push with 5
        END IF

        IF postfixExp at position i = 6
        THEN
            CALL push with 6
        END IF
```

IF postfixExp at position $i = 7$
THEN

CALL push with 7

END IF

IF postfixExp at position $i = 8$
THEN

CALL push with 8

END IF

IF postfixExp at position $i = 9$
THEN

CALL push with 9

END IF

IF postfixExp at position $i = +$
THEN

SET var1 = CALL top

CALL pop

SET var2 = CALL top

CALL pop

CALL push with $\text{var1} + \text{var2}$

END IF

IF postfixExp at position $i = -$
THEN

SET var1 = CALL top

CALL pop

SET var2 = CALL top

CALL pop

CALL push with $\text{var2} - \text{var1}$

END IF

IF postfixExp at position $i = *$
THEN

SET var1 = CALL top

CALL pop

SET var2 = CALL top

CALL pop

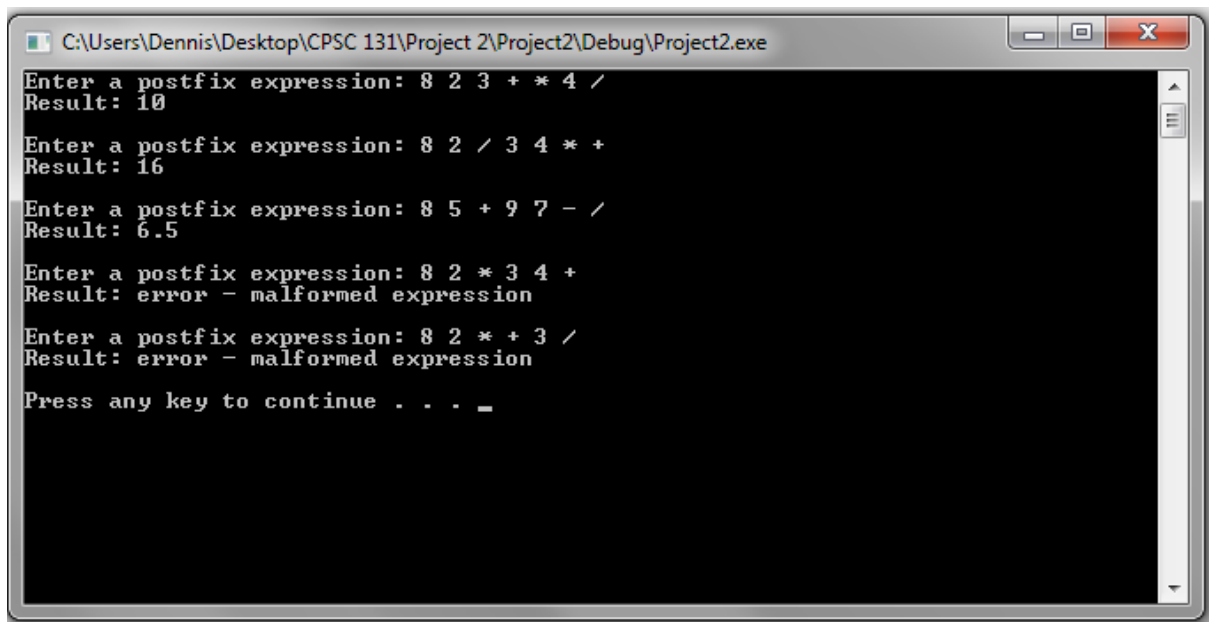
CALL push with $\text{var1} * \text{var2}$

END IF

IF postfixExp at position $i = /$
THEN

SET var1 = CALL top

```
        CALL pop
        SET var2 = CALL top
        CALL pop
        CALL push with var2 / var1
    END IF
    PRINT CALL top
ELSE
    PRINT error message
END IF
```



```
C:\Users\Dennis\Desktop\CPSC 131\Project 2\Project2\Debug\Project2.exe
Enter a postfix expression: 8 2 3 + * 4 /
Result: 10

Enter a postfix expression: 8 2 / 3 4 * +
Result: 16

Enter a postfix expression: 8 5 + 9 7 - /
Result: 6.5

Enter a postfix expression: 8 2 * 3 4 +
Result: error - malformed expression

Enter a postfix expression: 8 2 * + 3 /
Result: error - malformed expression

Press any key to continue . . . _
```