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| **Application/ Program name:** | L4-3 |
| **Written by:** | Bailey Nichols |

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| **Purpose or problem definition:** |
| The assignment is to create a header file that accepts a string of infix operations and turns them into a postfix operation. |
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| **Program Procedures:** |
| Read a string, validate that string, convert it to postfix notation and then output that string. |
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| **Algorithm/Processing/Conditions:** |
| **Inputs:** |
| One string from console. |
| **Processes:** |
| Validating and translating string from infix to postfix. |
| **Outputs:** |
| ShowInfix and showPostfix both print a line to console. |
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| **Notes & Restriction:** |
| You cannot process any string longer than 60 spaces.  constexpr int Maximum = 60;  Infix to postfix algorithm was inspired or copied from these two sources:  MyCodeSchool. “Infix to Postfix Conversion in C++ Using Stack. We Are Assuming That Both Operators and Operands in Input Will Be Single Character.” *GitHub*, MyCodeSchool, <https://gist.github.com/mycodeschool/7867739>.  Malik, D. S. (2018). *C++ Programming: Program Design Including Data Structures.* Pearson Education. Kindle Edition. Page 1216-1222  this is a simple main.cpp file to be used with the file to demo the use of the header files.  // L4-3.cpp : This file contains the 'main' function. Program execution begins and ends there.  //  #include "infixToPostFix.h"  #include <string>  #include <iostream>  using namespace std;  int main()  {  infixToPostfix inf;  string str;  cout << "please enter an Infix Expression: ";  cin >> str;  inf.getInfix(str);  inf.showInfix();  inf.showPostfix();  } |
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| **Comments:** |
| Kinda a hairbrained design because I did most of it in an afternoon. |