

AhmedAlkhattatCyrilleLingaiJonathanGrant_05 Pseudocode

Scan a user-specified file of infix expressions.
Read each line of file, and pass the infix expressions to the postfix conversion.
Close the file.
Catch file not found exceptions.
Open a file and write the postfix expressions.
Catch input output exceptions.
Close the file.

Stack Pseudocode

Assign the top node as the first value.
To push new nodes, link to top node and reference the new node as top node.
To pop a node, return nothing if stack is empty, or reference the next node as the top node and return the former top node.
To peek at stack, return the data of the top node.
To check if the stack is empty, test if the top node is null.
If the top node is null, the stack is empty, else the stack is not empty.
To clear the stack, assign the top node to null, and the Java Virtual Machine will call garbage collection on objects that are no longer referenced by pointer.

Postfix Pseudocode

Set result and stack.
Remove whitespace in the expression.
Check if the expression is a valid infix one.
Process each character of expression.
For condition less than length, if condition is letter or digit, then push to stack.
Or if lowercase is equal to uppercase letter, push to stack.
Else, while stack is not empty and peek is not equal to capital c.
If stack is not empty and peek is not equal to capital letter c, return invalid.