Read a mathematical expression, in prefix form, as a character string, from a text file input. The allowed operators are the usual binary additive (+, -) and multiplicative (\*, /). Build the tree for that expression. Every node should contain either an operator or an operand. Operands can be arbitrary numbers, separated by spaces. Example input. For the expression ((1.05-(-55+22)))\*10.3, the tree representing the expression is:

\*  
 / \  
 - 10.3  
 / \  
 1.05 +  
 / \  
 -55 22

Input example:

***\* - 1.05 + -55 22 10.3*** (note the spaces between)

Ouput example:

\*  
 / \  
 - 10.3  
 / \  
 1.05 +  
 / \  
 -55 22

Hint: use a queue.