>>> #Albert George

>>> #Program to convert infix expression to postfix expression

>>> from pythonds import Stack

>>> import string

>>> def infixToPostFix(infixexpr):

prec={}

prec["\*"] = 3

prec["/"] = 3

prec["+"] = 2

prec["-"] = 2

prec["("] = 1

opStack = Stack()

postfixList= []

tokenList = infixexpr.split()

for token in tokenList:

if token in string.ascii\_uppercase:

postfixList.append(token)

elif token=='(':

opStack.push(token)

elif token==')':

topToken= opStack.pop()

while topToken != '(':

postfixList.append(topToken)

topToken=opStack.pop()

else:

while (not opStack.isEmpty()) and \

(prec[opStack.peek()]>=prec[token]):

postfixList.append(opStack.pop())

opStack.push(token)

while not opStack.isEmpty():

postfixList.append(opStack.pop())

return " ".join(postfixList)

>>> print(infixToPostfix("A \* B + C \* D"))

A B \* C D \* +