**function** priority(char)

**if** char is ‘+’ or char is ‘-‘ **do**

**return** 1

**else if** char is ‘\*’ or char is ‘+’

**return** 2

**return** 0

**function** infixToPrefix(infixString)

operatorList <- {\*,/,+,-}

operandList <- {0,1,2,3,4,5,6,7,8,9}

operatorStack <- createStack()

operandStack <- createStack()

**for** each char in infixString **do**

**if** char is ‘(‘ **do**

operatorStack.push(char);

**else if** char is ‘)’ **do**

**while** operatorStack is not empty and operatorStack.top() is not ‘(’ **do**

operand1 <- operands.top()

operandStack.pop()

operand2 <- operands.top()

operandStack.pop()

operator <- operatorStack.top()

operatorStack.pop()

tmp = operator + operand2 + operand1

         operands.push(tmp)

operators.pop()

**else if** char is in operandsList **do**

operandStack.push(char)

**else do**

**while** operatorStack is not empty and priority(char) <<- priority(operatorStack.top()) **do**

operand1 <- operandStack.top()

operands.pop()

                 operand2 <- operandStack.top()

operands.pop()

operator <- operator.top()

operatorStack.pop()

tmp = operator + operand2 + operand1

         operands.push(tmp)

**while** operatorStack is not empty **do**

operand1 <- operandStack.top()

operandStack.pop()

operand2 <- operandStack.top()

operandStack.pop()

operator <- operatorStack.top()

operatorStack.pop()

tmp = operator + operand2 + operand1

         operands.push(tmp)

**return** operandStack.top()