# BUGGY SUM

totalSum := 0

FOR i = 0 to N - 1

totalSum := totalSum + i

ENDFOR

# BUGGY MERGESORT

FUNC mergeSort(numbers, start, count)

firstHalf := 0

secondHalf := 0

IF count > 1

firstHalf := count / 2

secondHalf := count – firstHalf

mergeSort(numbers, start, firstHalf)

mergeSort(numbers, start, secondHalf)

merge(numbers, start, firstHalf, secondHalf)

ENDIF

ENDFUNC

# BUGGY FACTORIAL

FUNC factorial(N)

IF N == 0  
 RETURN 1

ELSE

RETURN N + factorial(N – 1)

ENDIF

ENDFUNC