Assignment 6 - Sorting

Pre-Homework

# 1)

INT PRE1( bool A, bool B, bool C)

TOTAL ← 0

IF (A)

TOTAL ← TOTAL + 1

IF (B)

TOTAL ← TOTAL + 2

IF (C)

TOTAL ← TOTAL + 4

return TOTAL

# 2)

INT PRE2 ( LIST[ ] )

TOTAL ← 0

LEN ← Length( List )

for i ← LEN to 0

TOTAL ← TOTAL + 2i

return TOTAL

Actual Homework

# Compute the nth value of the harmonic series using recursion.

float PROC( T, N )

While ( N > 0 )

T ← T + 1/N

N --

PROC(T,N)

return N

# Implementation on JAVA

public static float f(float t,float n){

while (n > 0) {

t += (1 / n);

f(t, --n);

}

return t;

}