n=2000 4×=16 Christiano Carta x-values it cratin Millisecond Scenario N=2000, each iteration of inner loop takes 3 milliseconds. > Granted Big OClog(N.N). N), > Fill in values log (4000).2000 12-2000 2400Q 24000.3 72,000 milliseconds Morrect 1092(2000.2000).2000 log2(4000,000).2000 Final 22.2000 44000 44000.3 132000 milliseconds

12st loop end step -x+x=2

(1)> From the table to the left, we can determine the efficiency of the outer loop is OC log(n)).

Incorrect

(2)) Inner loop iterates n times, it is linear. OCn).

(3)> Upon Further analysis, Statement (1) seems to be incorrect, given:

antil (X->(N·N)"

X+X each iteration of the loop represents the logarithms of not N, but N.N, as is literally stated. Therefore, the time complexity should be O(log(N.N).N)

The outer loop and O(N) is the inner loop.