

CS4321 QUIZ 2 (Oct. 10)

NAME (5 points):

Solve the following two recurrences (5 points).

1. $t_n = \begin{cases} 2, & n = 0 \\ 3t_{n-1}, & n > 0 \end{cases}$

2. n is an exact power of 2 and $t(n) = \begin{cases} 2, & n = 1 \\ 4t(n/2) + n^2, & n > 1 \end{cases}$