Alexander Molodyh

Class: CS361

Date: April 15, 2017

Exercise #1 CS361 Winter 2017 Due 1/30/2017.

I. Multiple choice

1. T(n) = 3T(n/2) + n = $\Theta(\underline{n^{\log_2 3}})$. In addition, you achieve this by using Master Theorem's with case?
    a. Case 1 ←
    b. Case 2
    c. Case 3
2. T(n) = 4T(n/2) + n = $\Theta(\underline{n^2})$. In addition, you achieve this by using Master Theorem's with case?
    a. Case 1←
    b. Case 2
    c. Case 3
3. T(n) = 3T(n/3) + n = $\Theta(\underline{nlogn})$. In addition, you achieve this by using Master Theorem's with case?
    a. Case 1
    b. Case 2←
    c. Case 3
4. T(n) = 2T(n/2) + n = $\Theta(\underline{nlogn})$. In addition, you achieve this by using Master Theorem's with case?
    a. Case 1
    b. Case 2←
    c. Case 3
5. T(n) = 7T(n/3) + n = $\Theta(\underline{n^{\log_3 7}})$. In addition, you achieve this by using Master Theorem's with case?
    a. Case 1←
    b. Case 2
    c. Case 3