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Chapter 10 Questions

April 6, 2014

1. (T/F) A function that will take O(log2(n)) is more efficient than an algorithm of time complexity O(x^2).

Answer: True

2. Which of the these analyses types produce a more accurate description of the time complexity of an algorithm?

a. worst case analyses

b. easy case analyses

c. punctilious analyses

d. average case analyses

3. The goal of measuring \_\_\_\_\_\_\_\_\_\_\_\_ of algorithms is to allow the programmer to more conscious of how long a given process will take and the amount of resources it will need.

Answer : Time complexity/ efficiency

4. Give the informal definition of Big O notation for an algorithm A(n):

Once we get past the small stuff, A(n) is bounded above by some function F(n) multiplied by a constant value of k.