Quiz 2

True and Flase questions: Answer True or False to each question below. Answer true only if it is true as stated with no additional assumptions. Adding a short explanation will give you partial credit even if your answer is wrong. All questions have equal points. Other questions give on line answer.
* Required

1. First provide your Name and ID *

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2. Given N! = 1*2*3* ... *N Take log T(N) = log(N!) and prove T(N) in O(N log N) *

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3. True/False: Sum^N_(i= 1) i^k in O(N^k)

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4. True/False: Given T(N) = 2 T(N/2) + 1/N implies T(N) = O(N)

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5. True/False: Sum^N_{i=1} N/i in O(N)

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6. True/False: Given an array of positive N integers a[k] with k = 1,2,...,N Sorting a[k] in ascending order maximizes Sum_k (k a[k])

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