Time Complexity (Master’s Theorem)

1. T(n)=3T(n/2)+n

Answer: T(n)=ϴ (n^lg 3)

1. T(n) = 64T (n/8)-n^2 (log n)

Answer: T(n) = Does not apply (f(n) is not positive)

1. T(n) = 2nT(n/2)+n^n

Answer: T(n) = Does not apply (a is not constant)

1. T(n) = 3T(n/3)+n/2

Answer: T(n) = ϴ (n log n)

1. T(n) 7T(n/3)+n^2

Answer: T(n) = ϴ (n^2)