Logic and Computation I, Autumn 2024

Exercise 02-05
Due Date:

Exercise 2.5.1

1. Is $2^{n+1} = O(2^n)$? Is $2^{2n} = O(2^n)$?

2. Show $\max(f(n), g(n)) = \Theta(f(n) + g(n))$.

3. Show $\log(n!) = \Theta(n \log n)$.

Solution: