Tutorial 01 - Asymptotic Analysis CS 240E Winter 2022 University of Waterloo Monday, January 16, 2023

1. little- ω example:

Prove from first principles that $n \in \omega\left(2^{\sqrt{\log n}}\right)$.

2. Loop analysis:

Analyze the following piece of pseudocode and give a tight (Θ) bound on the running time as a function of n.