**Module 1: Big O Analysis**

Best, average, worst case

* Big O = worst case
  + Little O (o) = “worse than”
* Big Ω (omega) = best case
  + Little omega (ω) = “better than”
* Big θ (theta) = average case

Notations

* nlogn = “linearithmic”
* ⌊x⌋ = floor(x)
* ⌈x⌉ = ceil(x)

How to prove n^2 > n for all n >= 2

1. Show that the statement holds for n = 2
2. Assume the claim is true for n’ < n
3. Use algebra to show that the rest is true

**Live Meeting 1**