Foundations I
Lecture 1

$\mathbb{N} = \{1, 2, 3 \ldots\}$ Natural Numbers

$\mathbb{Z} = \{0, \pm 1, \pm 2 \ldots\}$ Integers

$\mathbb{R} = (-\infty, \infty)$ Real #'s

1. Mathematical Logic — exam 1
2. Asymptotic Analysis — exam 2
3. Graph Theory — Final

Run Time ??

LOGIC

1) Propositional   2) Predicate

Propositional Logic —

- true or false statement (cannot be both)

ex) $2 + 3 = 4$ → false proposition

ex) Be Careful — not a proposition

ex) $x + y = 0$ — not a proposition (could be TRUE or FALSE)

→ values not assigned