

Junior Knights Contest Course Spring 2025 4/5/2025 – Outline

10:15 am – 11:15 am

I. Lecture on Binary Search

- a. Basic Idea
- b. Real Number Binary Search (<https://open.kattis.com/problems/speed>)
- c. Integer Binary Search (<https://open.kattis.com/problems/financialplanning>)
- d. Tips for Setting mid, low and high
- e. More Examples: Cow Dance Show, Airport Shuttle

11:15 am – 11:30 am

Break

11:30 am – 12:50 pm

III. Practice Problems

- a. <https://open.kattis.com/problems/bootstrappingnumber>
- b. <https://open.kattis.com/problems/suspensionbridges>
- c. <https://open.kattis.com/problems/freeweights>
- d. <https://open.kattis.com/problems/expandingrods>

REMINDER: NEXT MEETING IS APRIL 12, 2025 with a guest speaker and pizza for lunch!!!