

Junior Knights Contest Course Spring 2025 4/19/2025 – Outline

10:15 am – 11:00 am

I. Mini-Lecture : Using bitmasks to go through all subsets

II. Lecture on Geometry

- a. Circles
- b. Vectors – Dot Product, Cross Product
- c. Parameter Equation of Line
- d. Line/Line Segment Intersection/Pt Line Distance
- fe Polygon Area

11:00 am – 11:15 am

Break

11:15 am – 12:50 pm

III. Practice Problems

- a. <https://open.kattis.com/problems/beehives>
- b. <https://open.kattis.com/problems/areyoulistening>
- c. <https://open.kattis.com/problems/cranes>
- d. <https://open.kattis.com/problems/unusualdarts>

Thanks for attending our classes this year! Hope you enjoyed them!