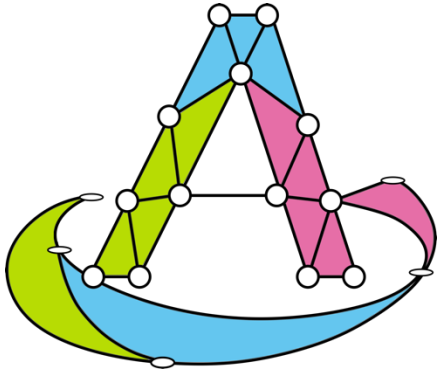
Reserch Progress

Meeting on November 11

Takumi Shita

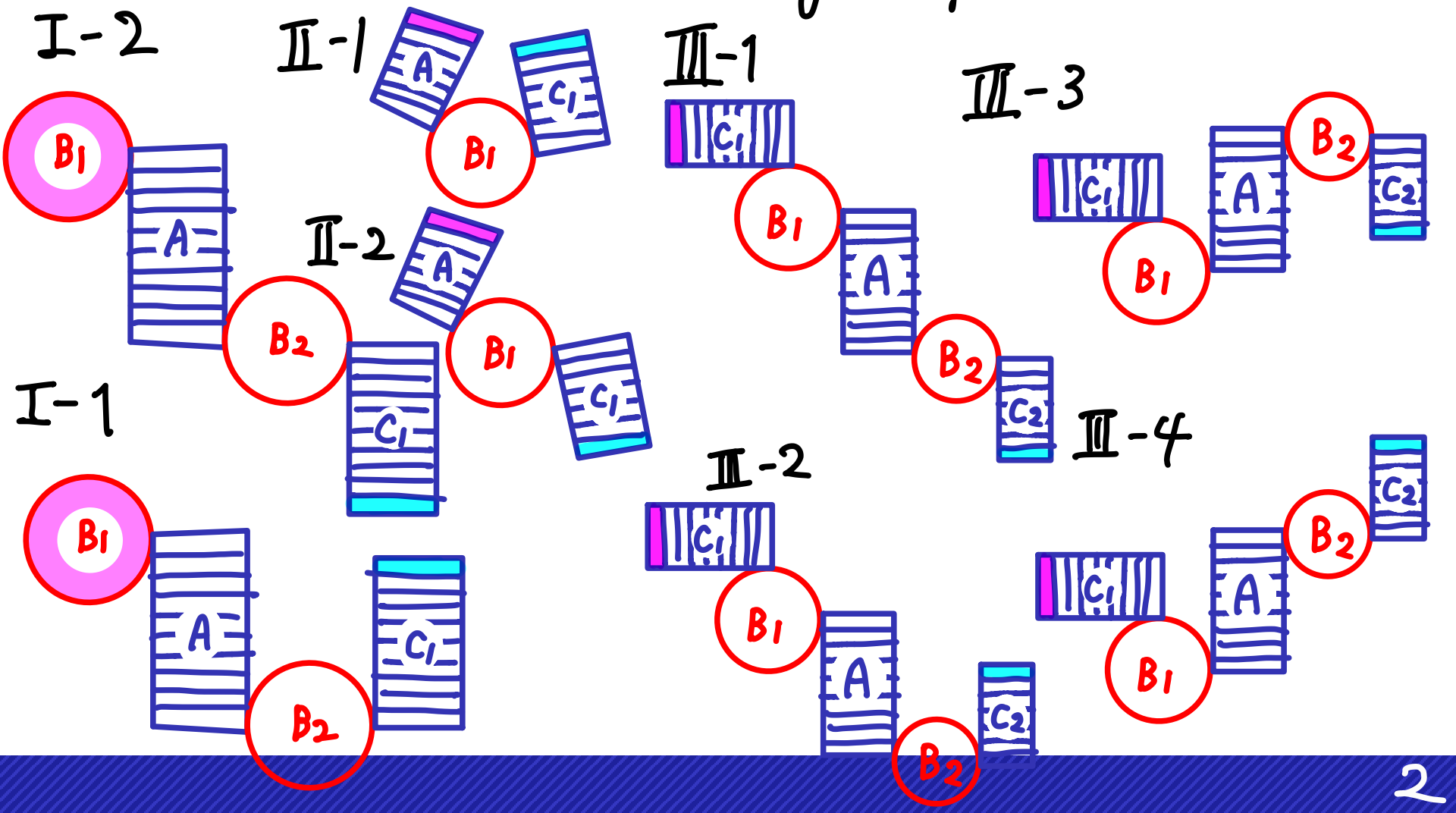
November 11

@NUS



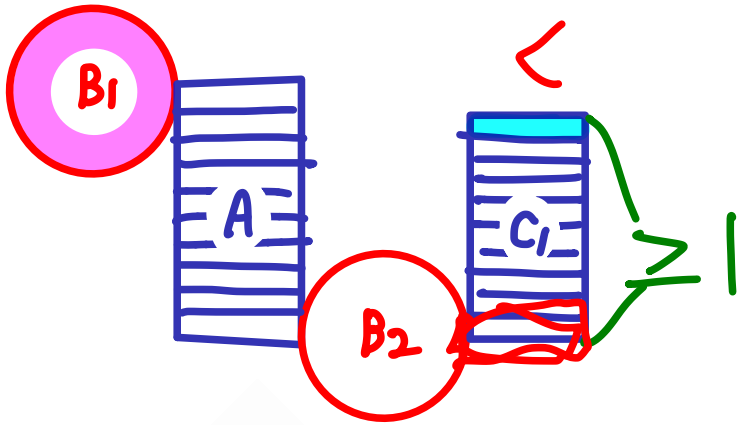
Review of the privious meeting

We have to consider following 8 patterns.

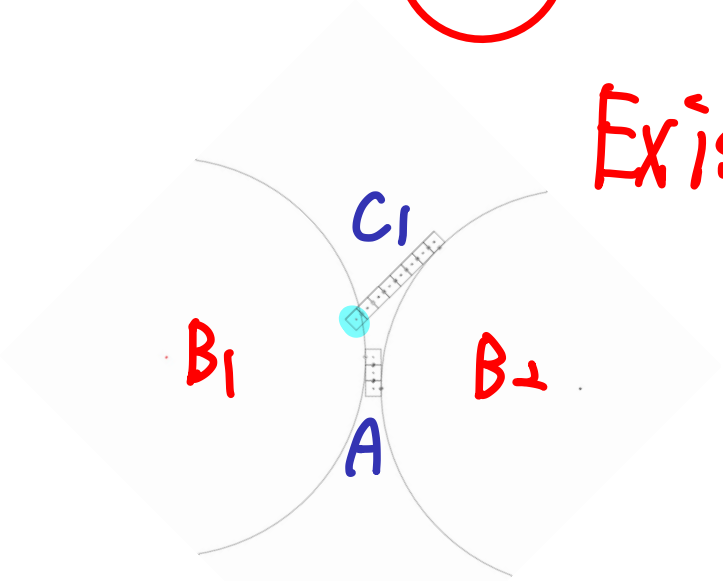


Existence of pattern for I

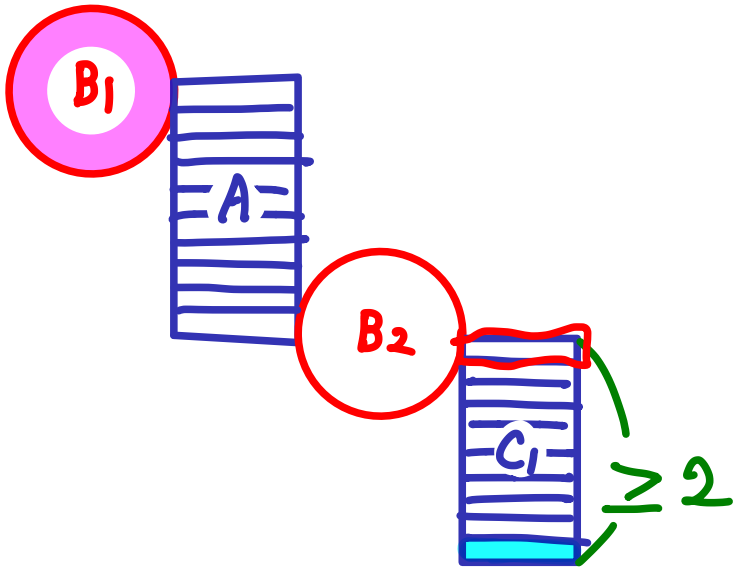
I-1



Exist.

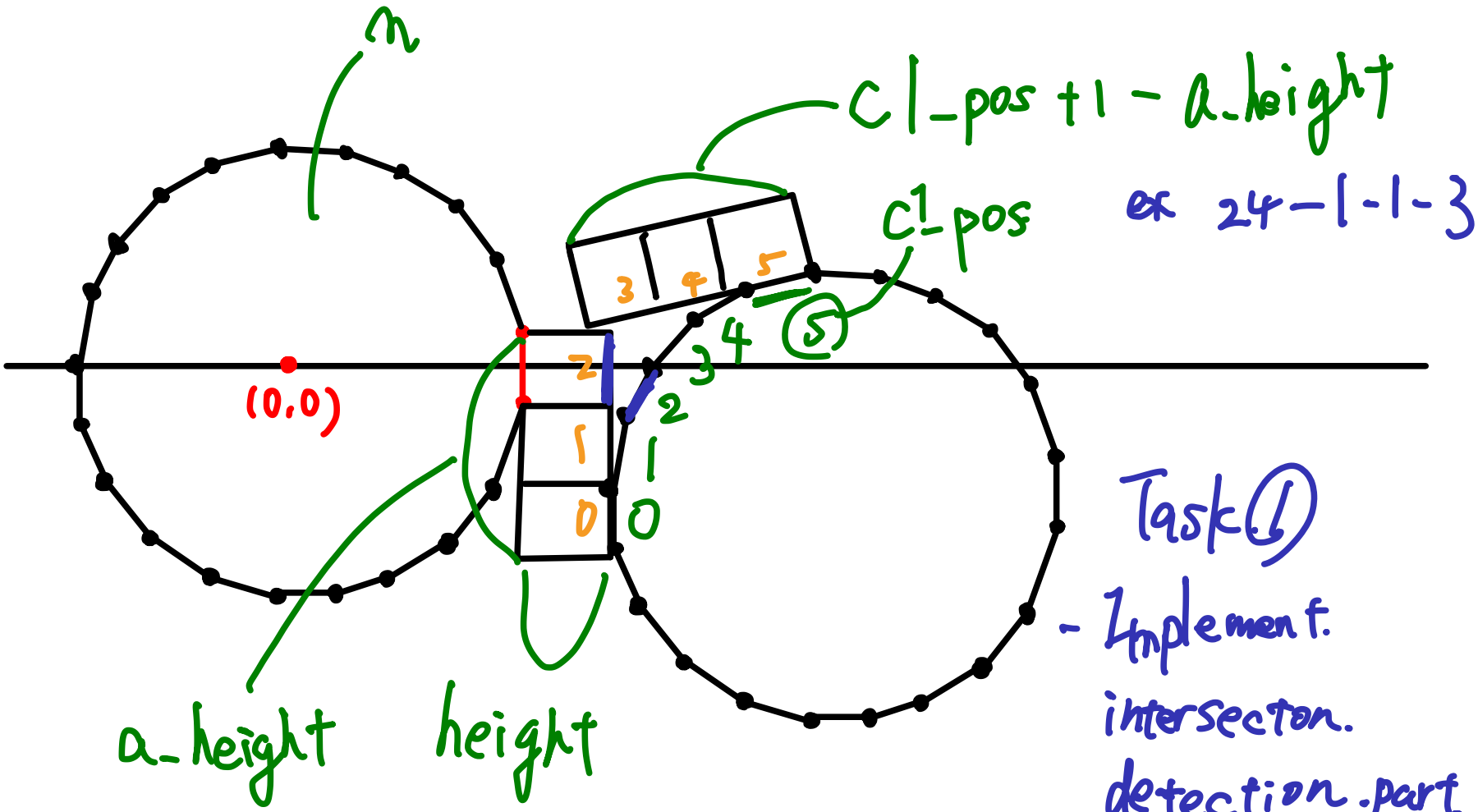


I-2

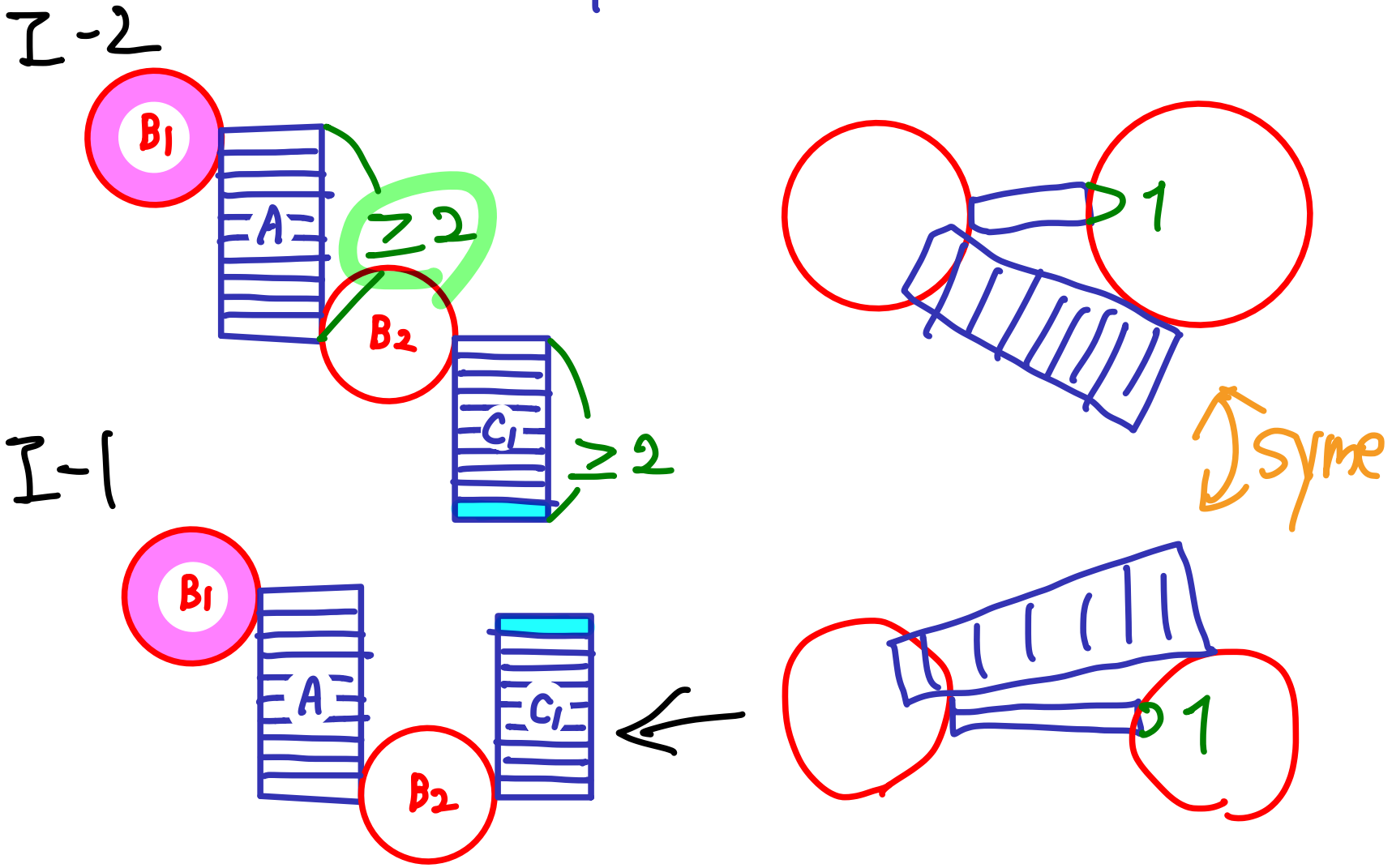


How about this pattern?

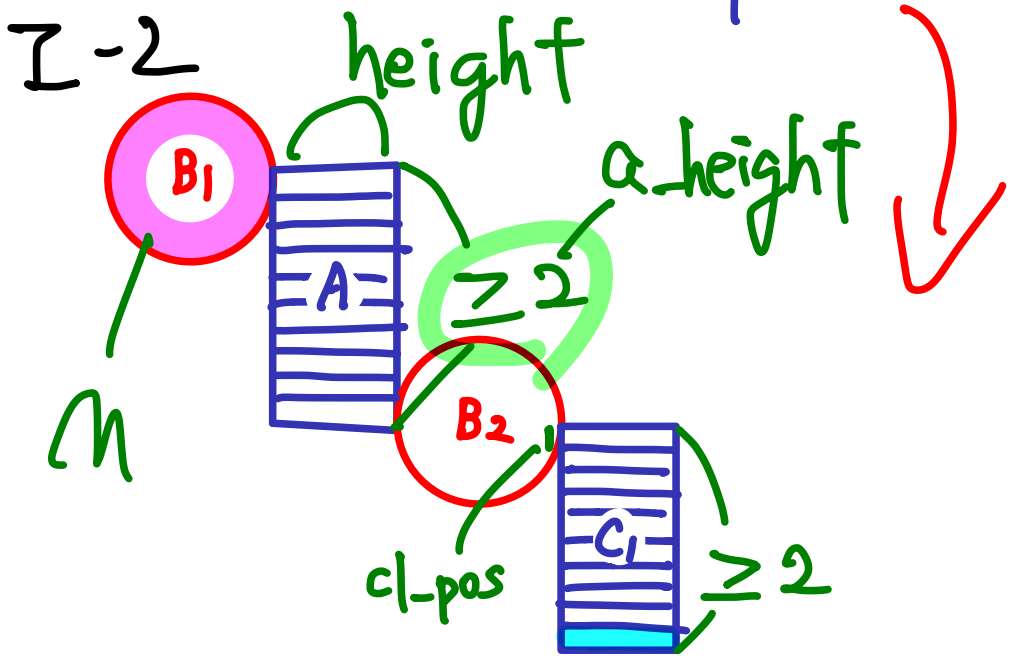
Coordinates of each points for I-1



Does the I-2 pattern exist ?



Does the I-2 pattern exist ?



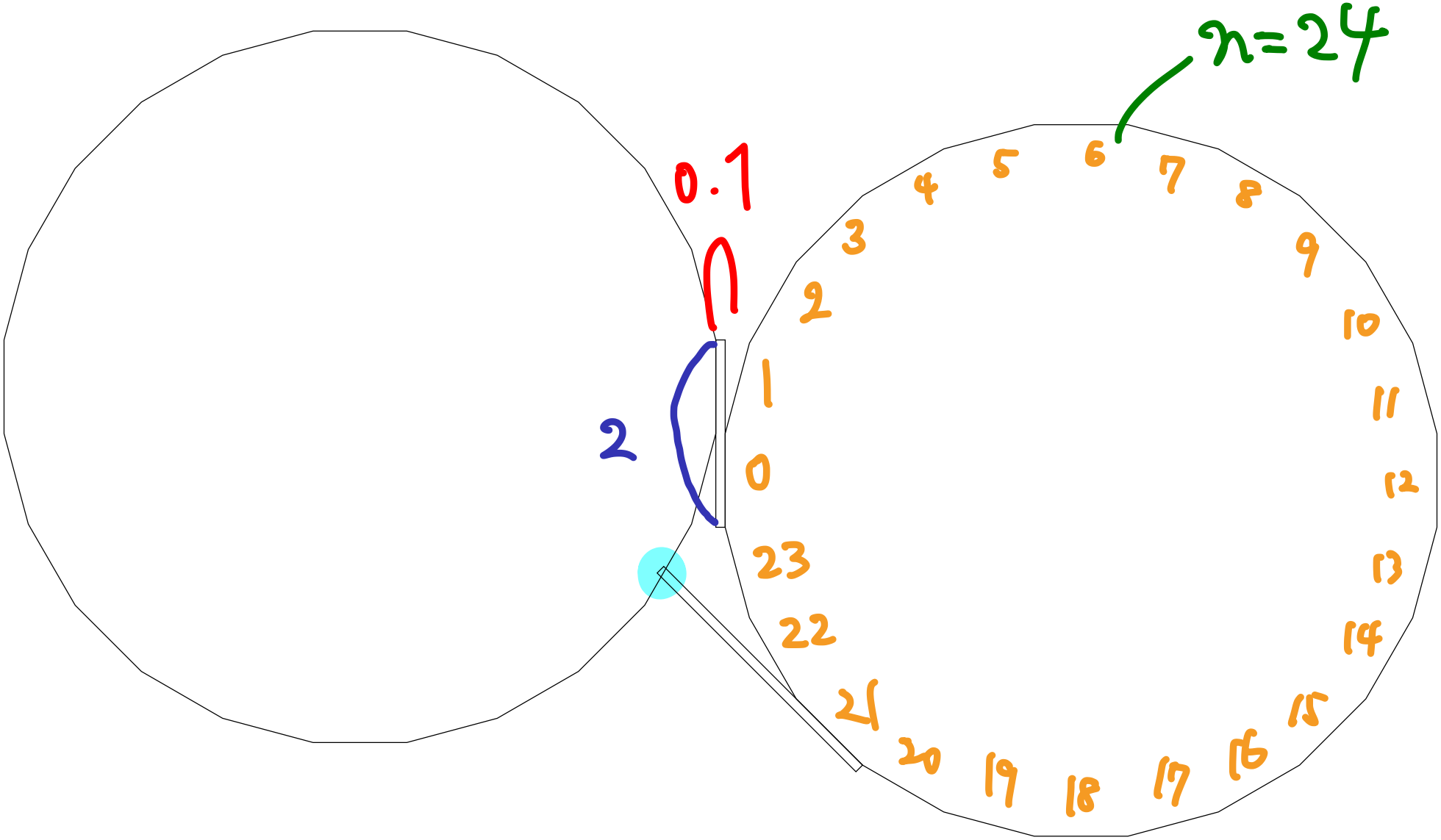
Yes!!

n = 24

hight = 0.1

a_height = 2

cl_pos = 21


n=24
0.7
2
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23

From the observation for pattern I-1.

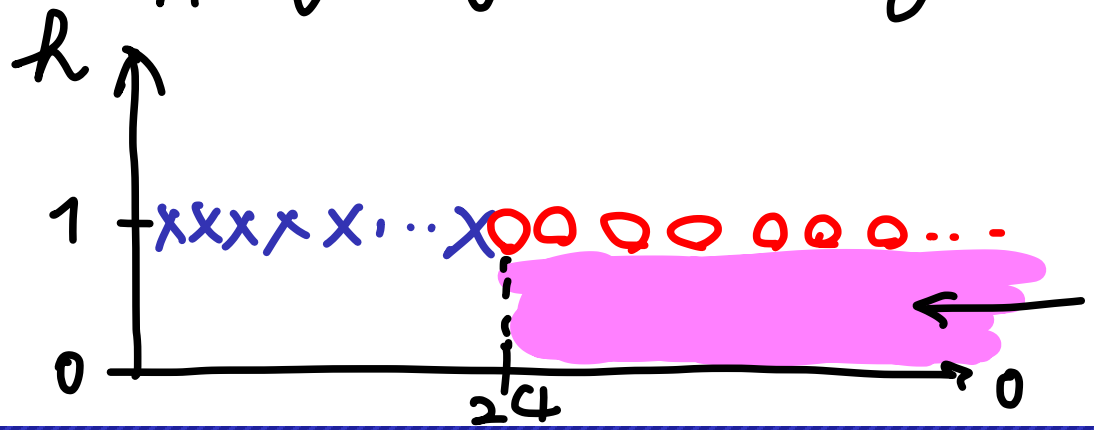
[T. Shiota and T. Saitoh, 2024]

If $k=1$ and $n \geq 24$, then n-gonal prism have overlapping edge unfolding.

Conjecture 1

If $k \leq 1$ and $n \geq 24$, then n-gonal prism have overlapping edge unfolding.

Task ② Proof it.



Memo.

- Using JavaScript may be good (in the future)

* char to (.bigfloat → Not good → No sin c.s.

decimal.js

JavaScript | svg.js

Making slider!