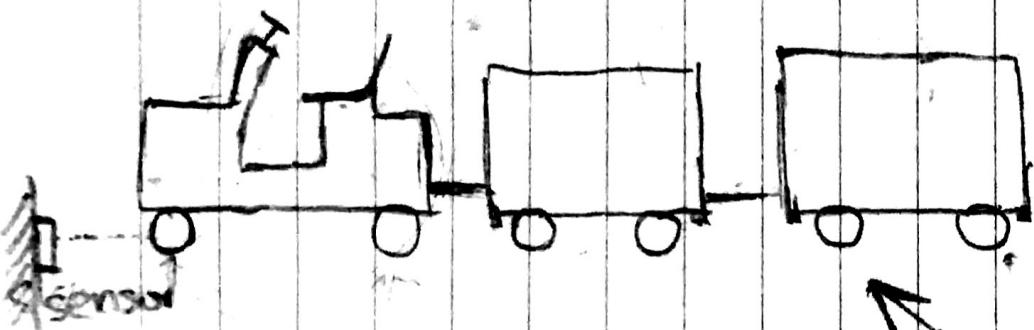
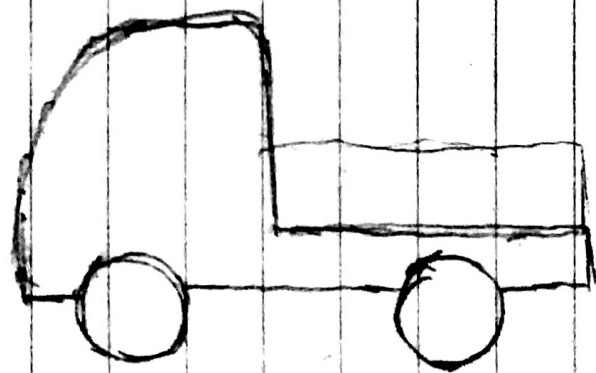


Plan A: Ideal Situation



Count wheels: N

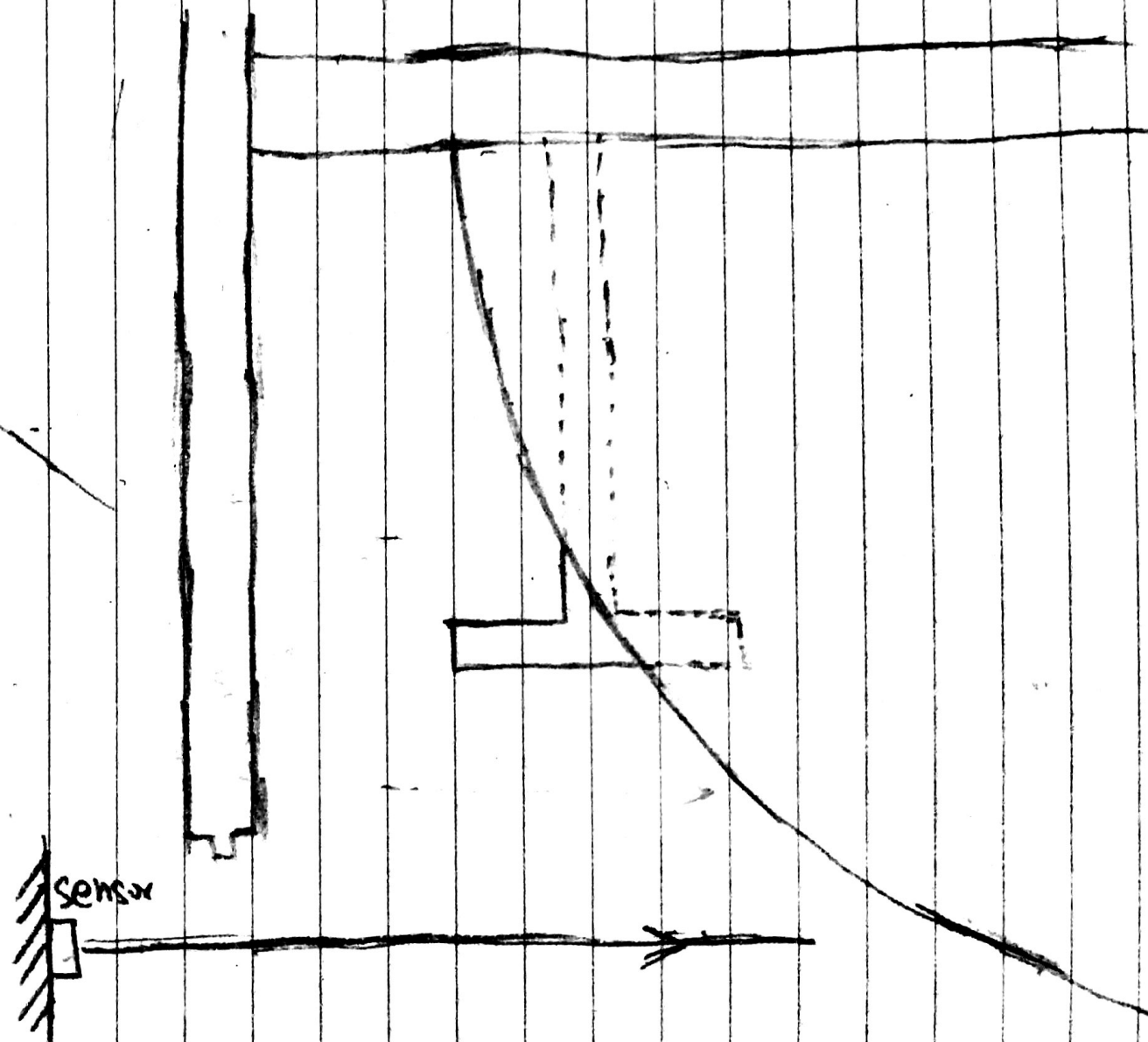
$$\Rightarrow \text{palette number} = \frac{N-2}{2}$$



(No effect)

Count: 2

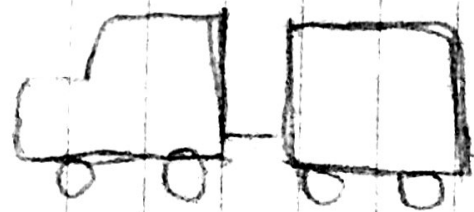
$$\text{palette number} = \frac{2-2}{2} = 0$$



Problem:

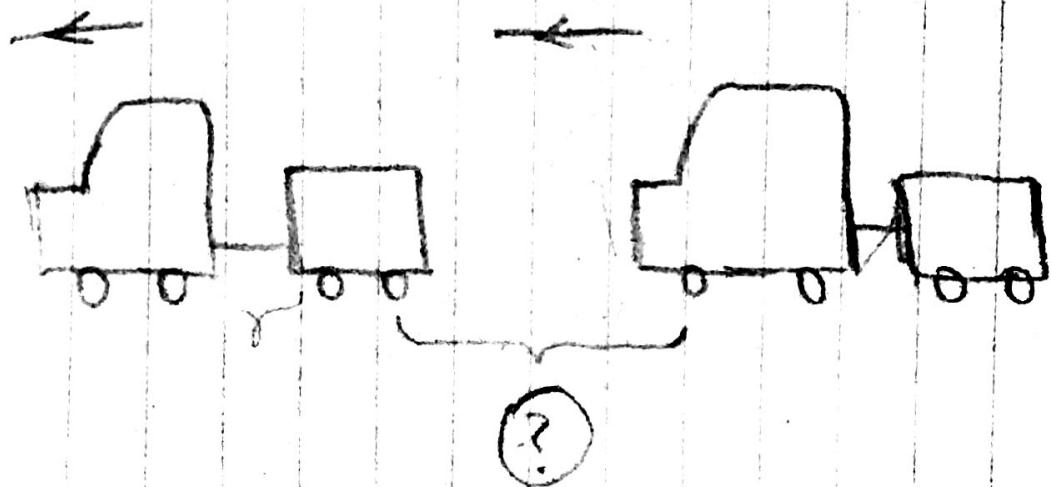
When to stop counting

Ideal Situation

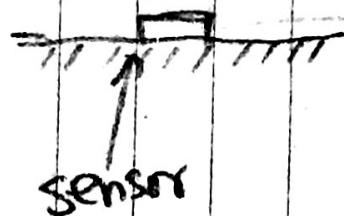
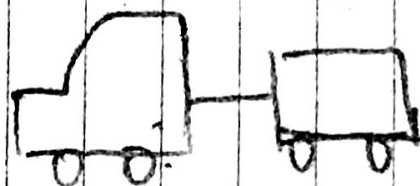


wait time: Ns .
If no blocks
Then stop counting

Situation I:



Situation II:



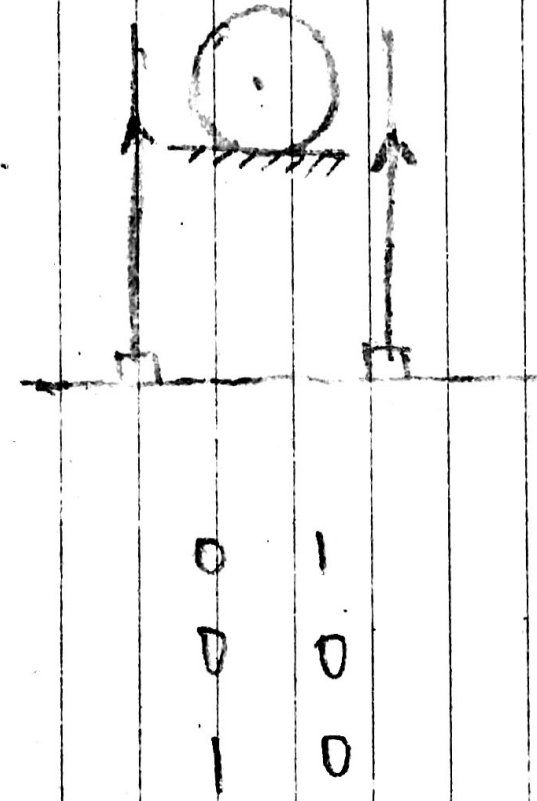
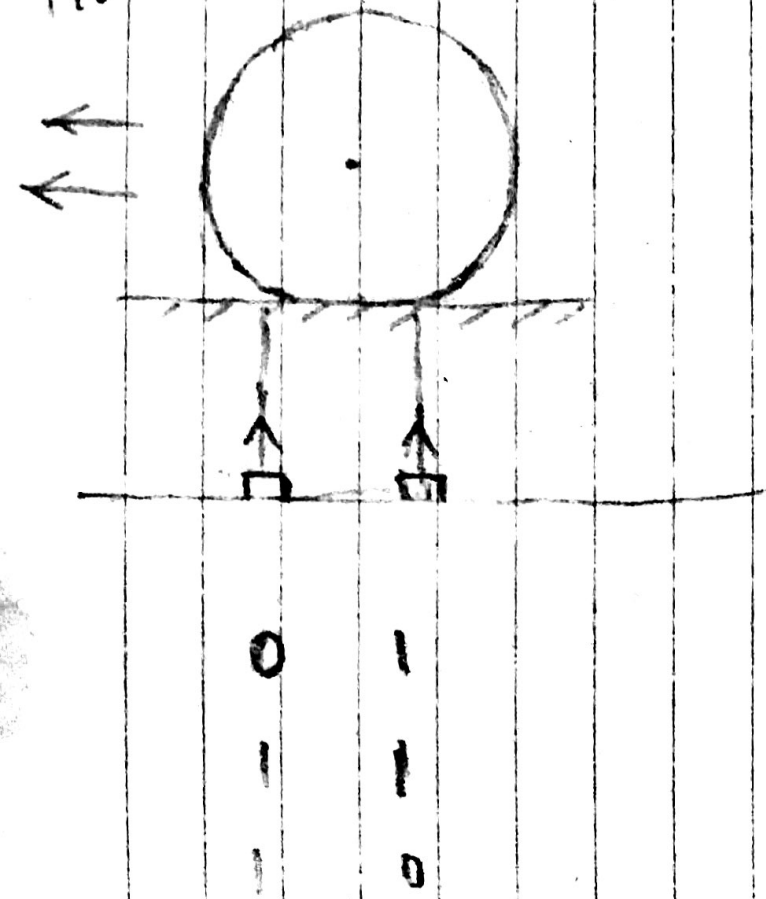
→ Stop at the entrance

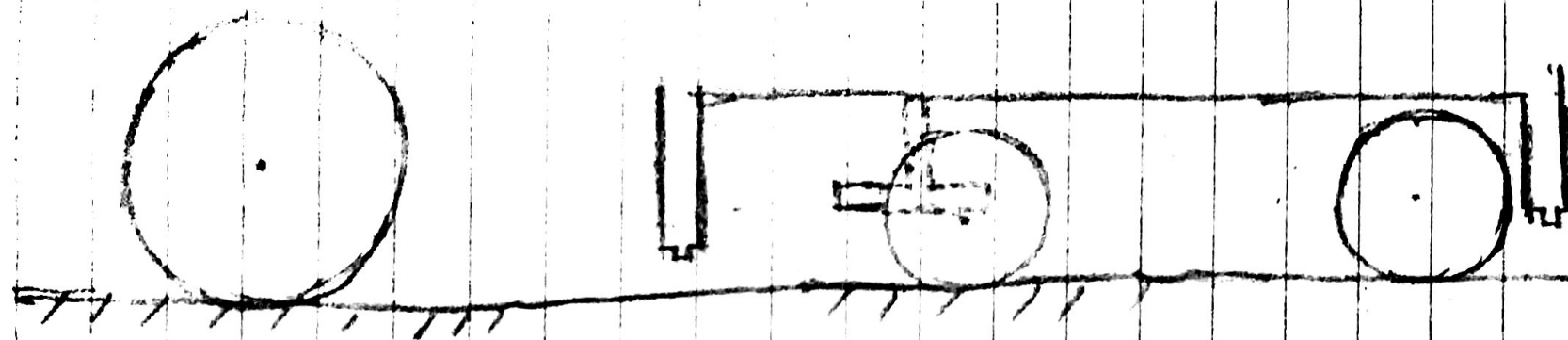
↓
move sensor into
the tunnel.

Situation III:



Plan B:



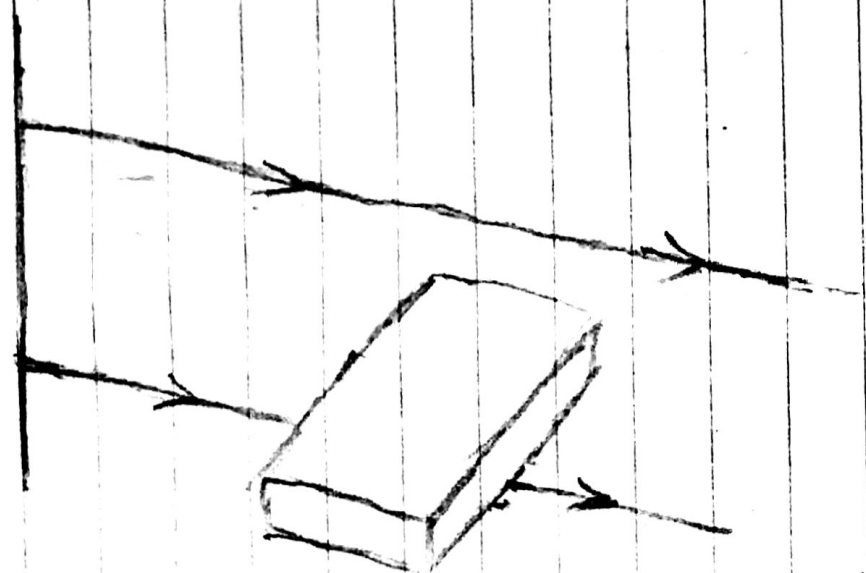
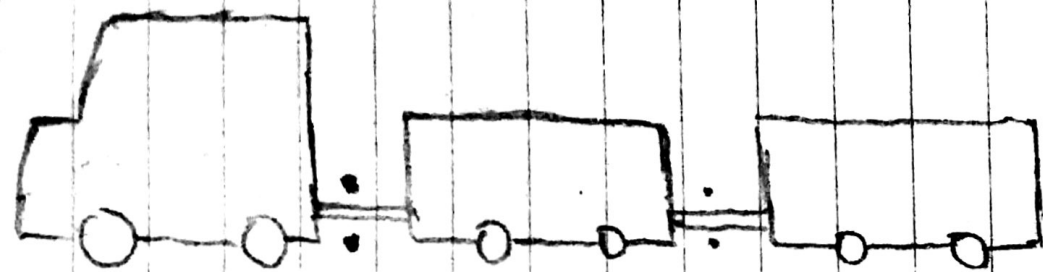


0	1
1	1
1	0

0	1
0	0
1	0

0	1
1	1
1	0

Plan C



Plan D.

