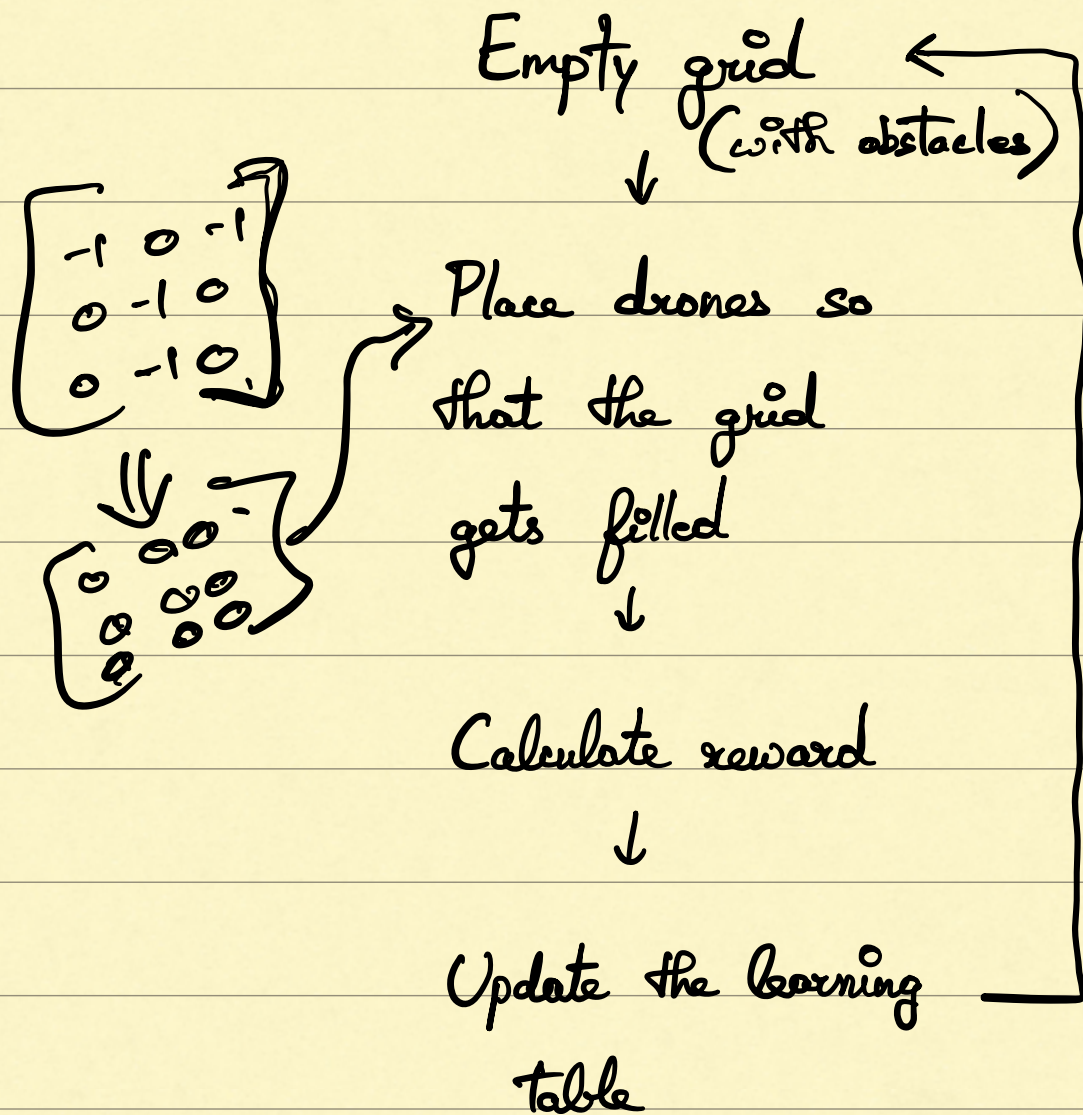


Training



Things to consider for reward: (Pending)

- Number of drones used (less = more reward)
- Overlapping (less = more reward)
- If grid not filled (reward $\times -1$)

Test

Take the Q-learning
table



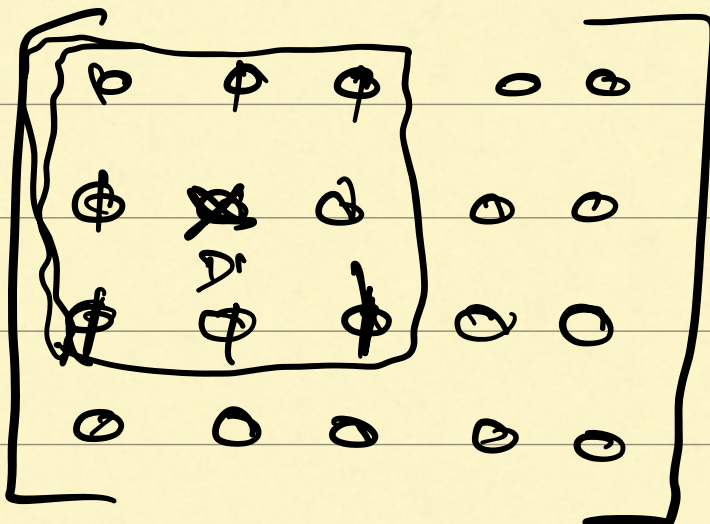
Empty grid



Place drones (get the drones pos)



Get the grid info



$D1 \rightarrow (1,1) (3 \times 3)$

$D1(1,1) 3$

$(0,0) (0,1) (0,2) (1,0) (1,1) (1,2) (2,0) (2,1) (2,2)$

Getting the grid info

Get drone position, (grid) what the drone sees
↓

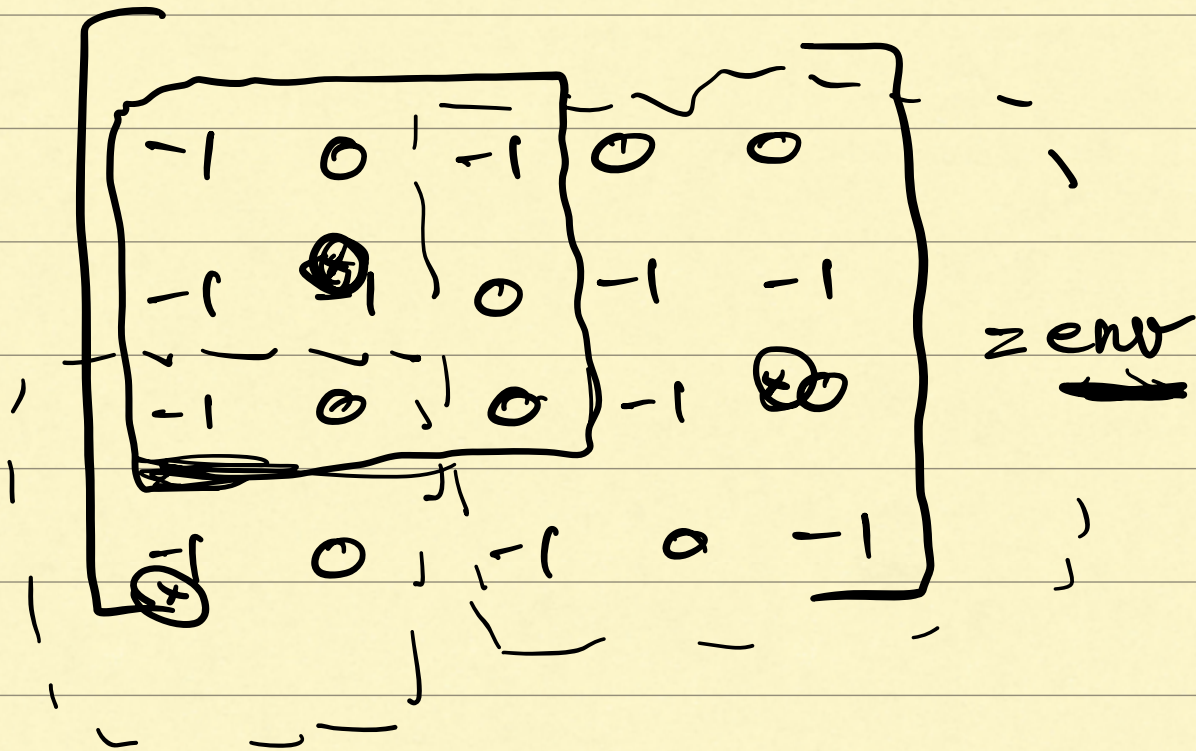
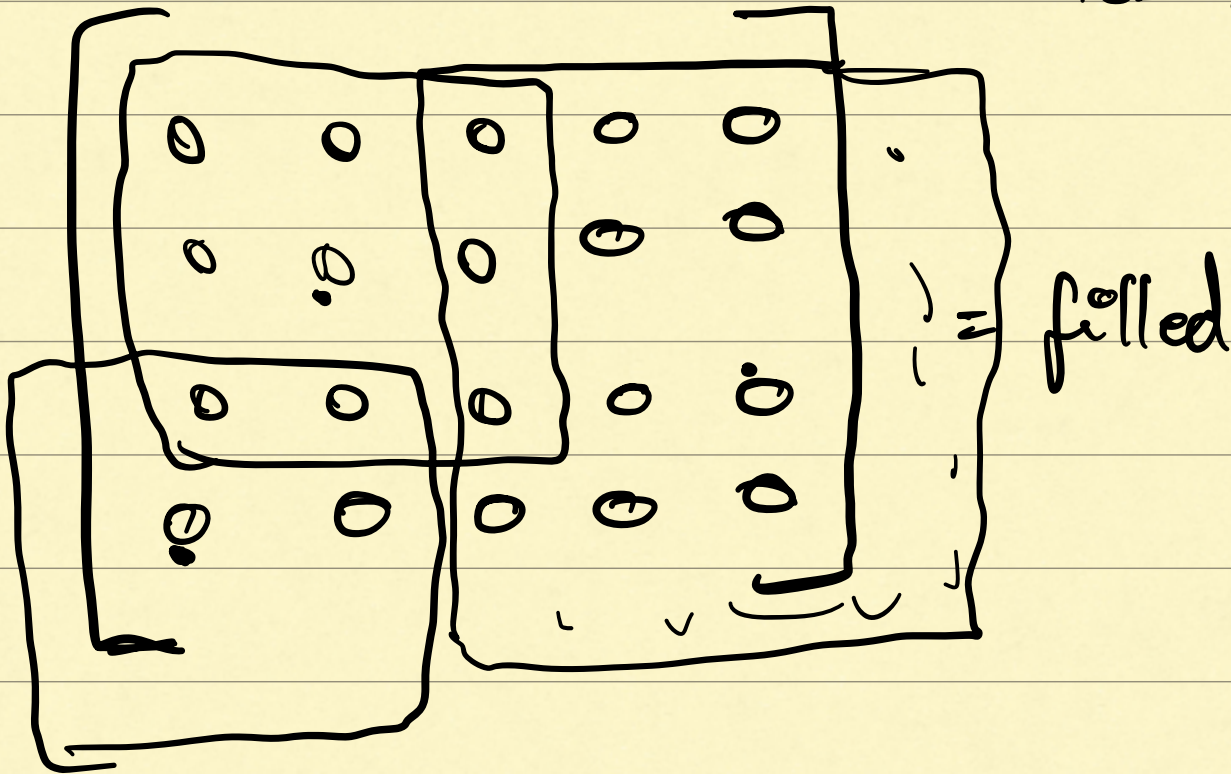
Stitch them together

↓
route

Route

Do IDS to find path

For Zihan



(D1, (1, 1) 3, D2, (3, 5) 5, D3, 4, 0, 3)