

# Maze Solver

boogies

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1. straight line (**done**)

**spped** 200

**kp** .65

**kd** 5

**speed** 250

**kp** .52

**kd** 4

**theory:**

$$k_p * \text{max speed variation} = \text{constant}$$

$$\frac{k_d}{k_p} = \text{constant} = 7.692$$

2. only left or right turn (**done**)  
turn speed cannot exceed 100  
max speed cannot exceed 200
3. uturn (**done**)
4. stop at the checkpoint (**done**)
5. uturn at checkpoint
6. checking the node  
at speed 200 minimum delay required is 40 mills.
7. node left turn, right turn, straight turn

8. storing the nodes
9. finding the solution
10. following the solution