Start

Line following,

If detected a wall on right + no path -> wall following

If detected a wall on left + no path -> wall following

v

Line following

Detects the 1st T junction -> color box detection algorithm

Line following

Dotted line following

Line following

Passing the ramp

Detects the 1st T junction after the ramp -> make the turn according to the calculation

Detect pillars on right/left + path -> count the no of pillars before the next L turn + line following

If the pillar count even -> make the L turn If pillar count odd -> 180 turn

line following

Detect the 2nd L turn to right/left & turn

Line following

Detects the 2nd T junction after the ramp -> Synchronize gate algorithm

Line following

Detects the 4th T junction after the ramp -> stop