

The Grand Maze

Open one hint at a time. Try it before you open the next.

- Hint 1 — Think about it

Two solved problems, one program. The trick is the **switch**: at the doorway there is no wall ahead any more, so the car keeps driving until the color sensor sees the black tape. Run your Hug the Wall loop *until black*, then your Follow the Line loop *until green*.

- Hint 2 — Which blocks to use

repeat until < color sensor sees black >

Phase 1: your Mission 5 loop, new ending condition.

repeat until < color sensor sees green >

Phase 2: your Mission 6 loop.

color sensor F sees (black)

The doorway marker.

celebrate

Sound + light on the tile.

- Hint 3 — Plan in plain words

1. Copy the Mission 5 loop and change “green” to “black”.
2. After it, add the Mission 6 line-following loop.
3. End with celebrate.
4. Test each phase alone before joining them.

Watch out: If it works in pieces but fails when joined, look at where phase 1 *ends*: is the car straight and on the tape start before the line-following loop begins?

Playbook: The right-hand rule · Dead ends: everything blocked · Follow the line · Green means go · Explore, then sprint

Keep going: Challenge → [mission-7-challenge.pdf](#) | Solution → [mission-7-solution.pdf](#)

The same content is in the matching .html files.