

Zig-Zag Stairs

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

- Hint 1 — Think about it

A list is a row of boxes that grows. Every time the car makes a decision, drop a letter in the next box. When it finishes, read the boxes back. What would a mirrored maze give you?

- Hint 2 — Which blocks to use

delete all of (route)	Start with an empty list.
add (R) to (route)	One letter per turn.
write (route) on the light matrix	Scrolls the list across the hub.
repeat until < color sensor sees green >	Your S-Curve loop, unchanged.

- Hint 3 — Plan in plain words

1. Copy your Mission 3 program.
2. Empty the list at the start.
3. In each branch (right, left) add the matching letter.
4. After the loop, write the list on the hub.

Watch out: Add the letter *inside* the branch that made the turn, or the list will be wrong. A dead end adds a U — there should be none here.

Playbook: Stop and look · The right-hand rule · Remember your route

Keep going: Challenge → [mission-4-challenge.pdf](#) | Solution → [mission-4-solution.pdf](#)

The same content is in the matching .html files.