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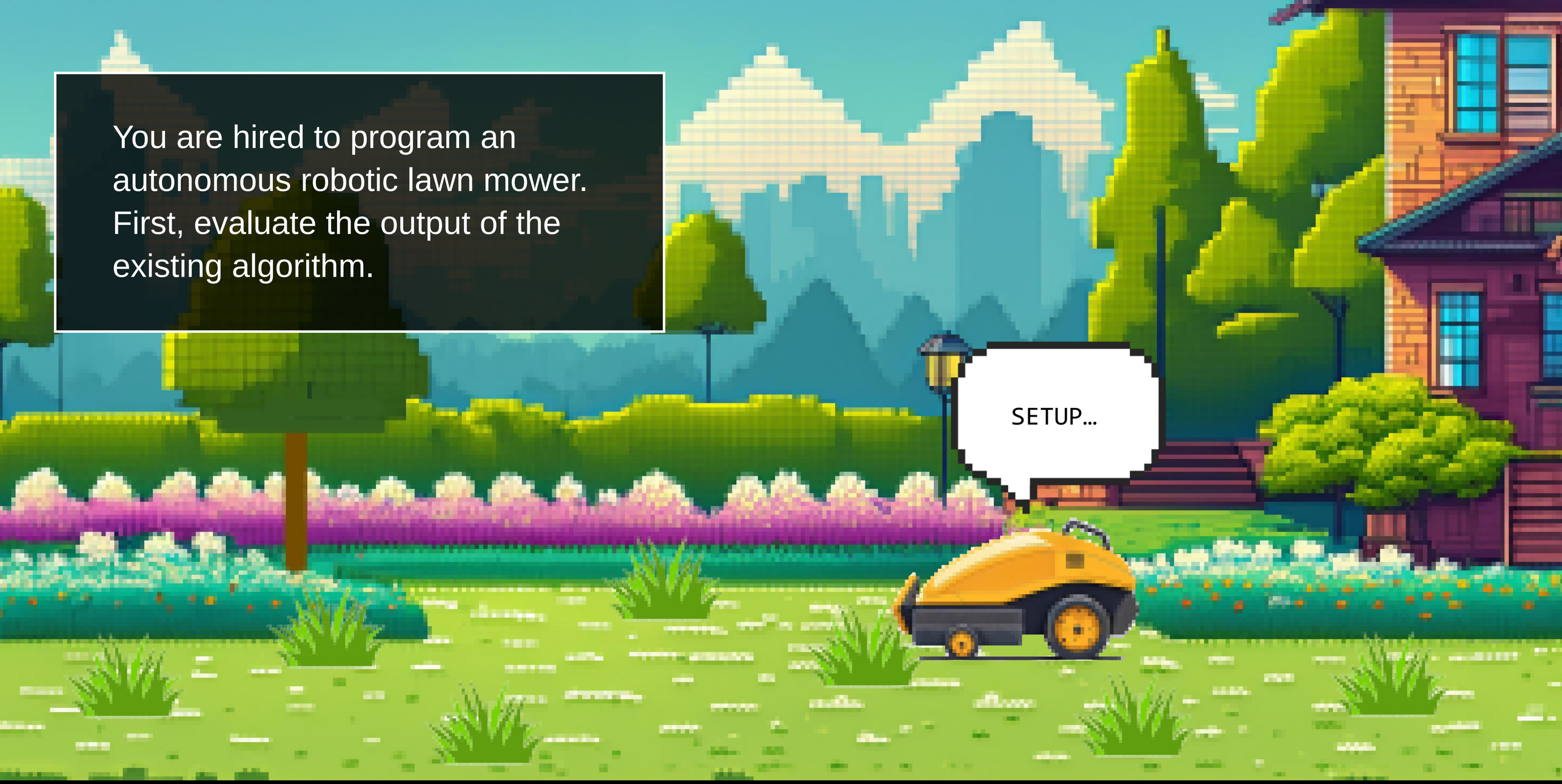
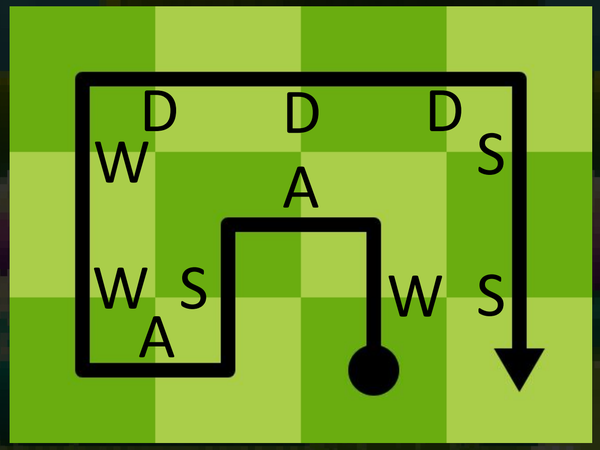
LEVEL 1

You are hired to program an autonomous robotic lawn mower. First, evaluate the output of the existing algorithm.



- You are given a list of paths for a lawn mover.
- A path is represented by a string of characters.
- Each character represents a fixed distance in a cardinal direction.
- **For each path, count how often each direction appears.**



WASAWWDDDSS

North – W
East – D
South – S
West – A

Input

Name	Description	Example
N	Number of paths	3 WASAWWDDDSS DDSAASDDSAA DSASSDWDSDWWAWDDDSASSDWDSDWWAWD
Path (repeated N times)	A string of characters ‘W’ represents North. ‘D’ represents East. ‘S’ represents South. ‘A’ represents West.	

Output

Name	Description	Example
Counts (repeated N times)	4 integers separated by spaces They represent the occurrence of each direction in this order: ‘W’ ‘D’ ‘S’ ‘A’	3 3 3 2 0 4 3 4 8 11 8 4

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Lawn Mower