Debug a paper robot

Where does an instruction sequence first stop matching its goal?

The starting state

Mark the start square, facing direction, goal and blocked square.

My first trace

After each command, record square and direction. Where does the first blocked move occur?

My repair

Write a new sequence and trace it from the original starting state.

What I have checked

State what the trace demonstrates. Name one changed starting case I have not checked.

Keep it, change it or leave it here. Sharing is optional.

Encode a tiny pixel picture

Can someone rebuild a small image from an unambiguous written code?

Header and legend

State width, height, reading order and 0/1 meanings.

My decoded grid

Copy or describe the dark and white cells.

My round trip check

Read all four rows back to the code.

One deliberate change

Record which bit changes and which cell it affects.

Keep it, change it or leave it here. Sharing is optional.

Build a six card search index

What makes a paper search return a useful match?

The collection

Keep the six card letters and titles together.

My index

List each distinct title word with its matching letters.

My query

Apply one word or an explicitly stated AND query.

Meaning of no match

Explain what the result says about this rule and collection.

Keep it, change it or leave it here. Sharing is optional.