



Literate Programming

POWER OF THOR

- EPISODE 1

LANGUAGE : PYTHON 3

3. APPROACH

BRUTE-FORCE: I BEGAN TO MAP OUT WHAT EACH CONDITION WOULD MEAN AS FAR AS THOR'S POSITION IN MY MIND. BASICALLY, JUST UNDERSTANDING WHAT NORTH, SOUTH, EAST, AND WEST WOULD MEAN SO I COULD WAGER WHAT THE NE, SE, NW, AND SW DIRECTIONS MEANT.

4. DIRECTIONS

E: $\text{light_x} > \text{initial_tx}$

W: $\text{light_x} < \text{initial_tx}$

N: $\text{light_y} < \text{initial_ty}$

S: $\text{light_y} > \text{initial_ty}$

4. DIRECTIONS (CONT.)

SE: Y increases, X increases

SW: Y increases, X decreases

NE: Y decreases, X increases

NW: Y decreases, X
decreases

6. THOUGHTS/ LOGIC

AFTER WRITING DOWN WHAT EVERY MOVEMENT MEANT AND HOW THOR WOULD BE MOVING, I KNEW THE BEST COURSE OF ACTION WAS TO TEST EACH MOVEMENT WITH THE TEST CASES TO SEE HOW IT RAN TO KNOW MY BEST MOVE MOVING FORWARD. IN ONE CASE, THOR SOLELY MOVED SOUTHWEST FOR THE LAST TEST CASE WHICH HAD NO BEARINGS TO THE LIGHT LOCATION SO HE RAN OFF THE MAP BEFORE REACHING THE LIGHT SINCE BOTH POSITIONS WERE DECREASING SIMULTANEOUSLY AND RUNNING HIS ENERGY DOWN SINCE THE FOCUS WAS ON THE LIGHT'S POSITION'S MOVEMENT EVEN THOUGH IT IS STAGNANT. THIS MEANT THAT THOR'S POSITION WASN'T BEING ALLOCATED CORRECTLY, SO TO COMBAT THIS I KNEW THAT I WOULD HAVE TO SWITCH MY LIGHT AND THOR'S INITIAL POSITION TO MAKE EACH MOVE GO UP/DOWN BY 1 POSITION ON THE GRID ACCORDING TO WHERE THE LIGHT POSITION WAS.