5.Implement the 8-puzzle problem using A\* algorithm, using

Heuristic function as Manhattan distance with depth not more the 3.

If goal state is not reached within this limit, agent must report

“NOSOLUTION”.

8 2 3

4 6

7 5 1

Start state

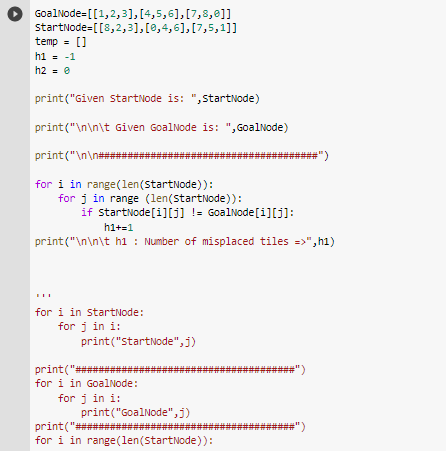
1 2 3

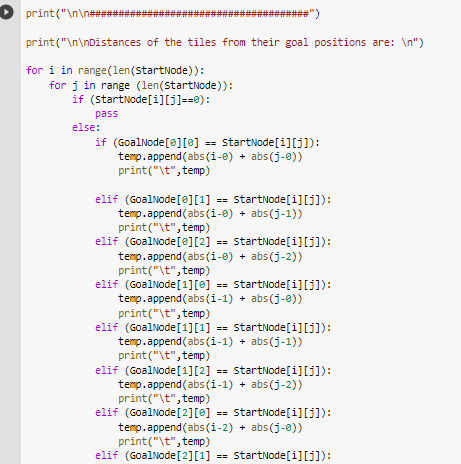
4 5 6

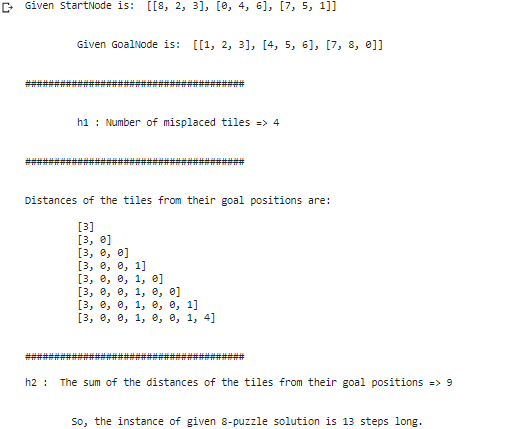
7 8

Goal State

**OUTPUT**

****

****

****