

JAVA PROJECT



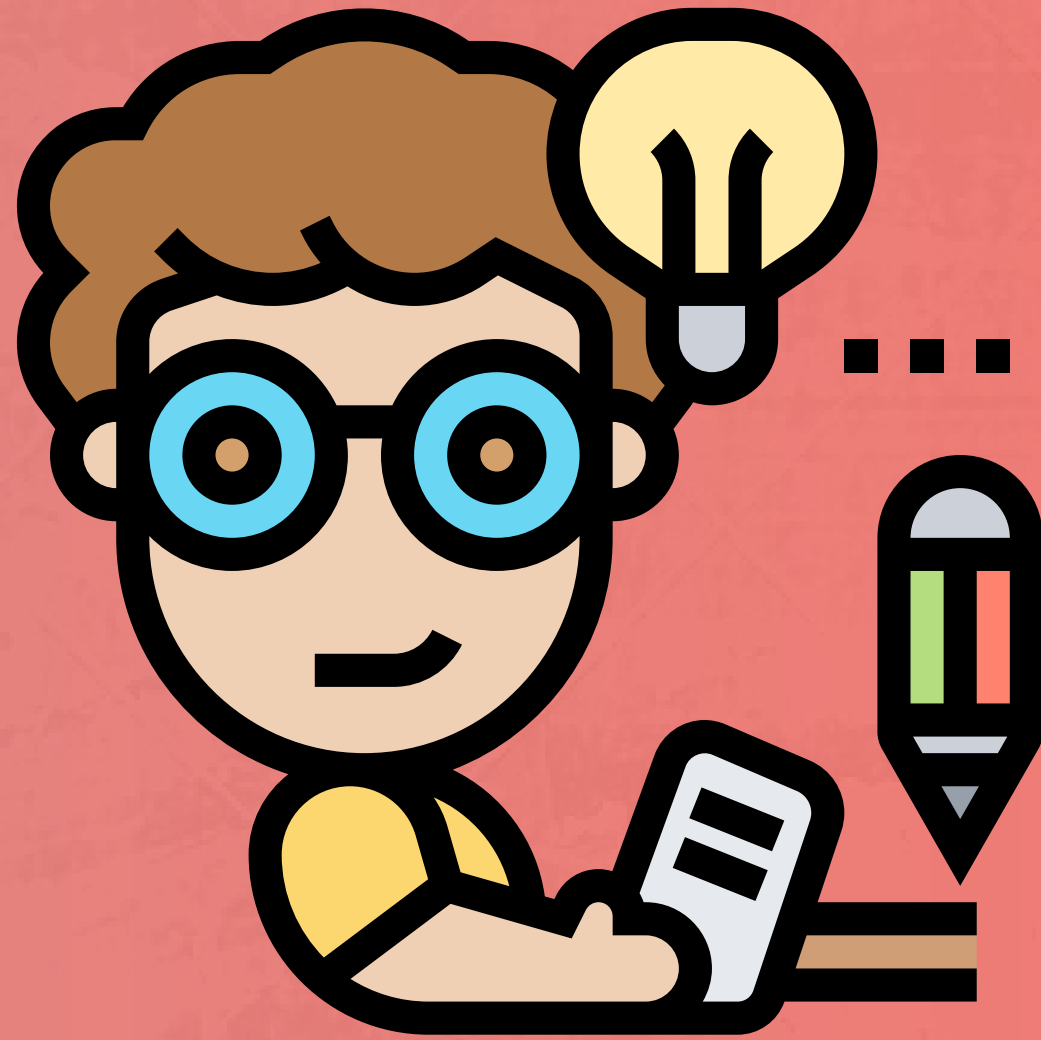
OCTA - PUZZLE

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WHAT IS OCTA-PUZZLE GAME



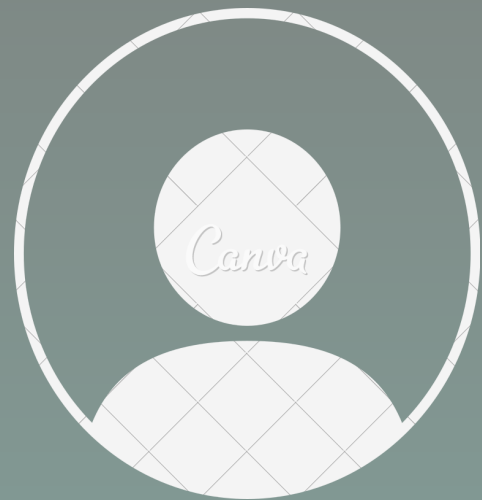
- The Octa-puzzle game is basically an 8-puzzle game is a classic sliding puzzle game that consists of a 3x3 grid with eight numbered tiles and one empty space.
- The objective of the game is to move the tiles around the grid by sliding them into the empty space until the numbers are in order from 1 to 8, with the empty space in the bottom right corner.


SOMETHING YOU DON'T KNOW ABOUT 8-PUZZLE



- The 8 puzzle game was invented by an American postmaster named Noyes Palmer Chapman in the late 1800s.
- The 8 puzzle is a classic puzzle that has been around for over 150 years.
- The 8 puzzle has inspired many other puzzles and games, such as the 15 puzzle, which has a 4x4 grid and 15 numbered tiles.

LOGIN MODULE



 Login

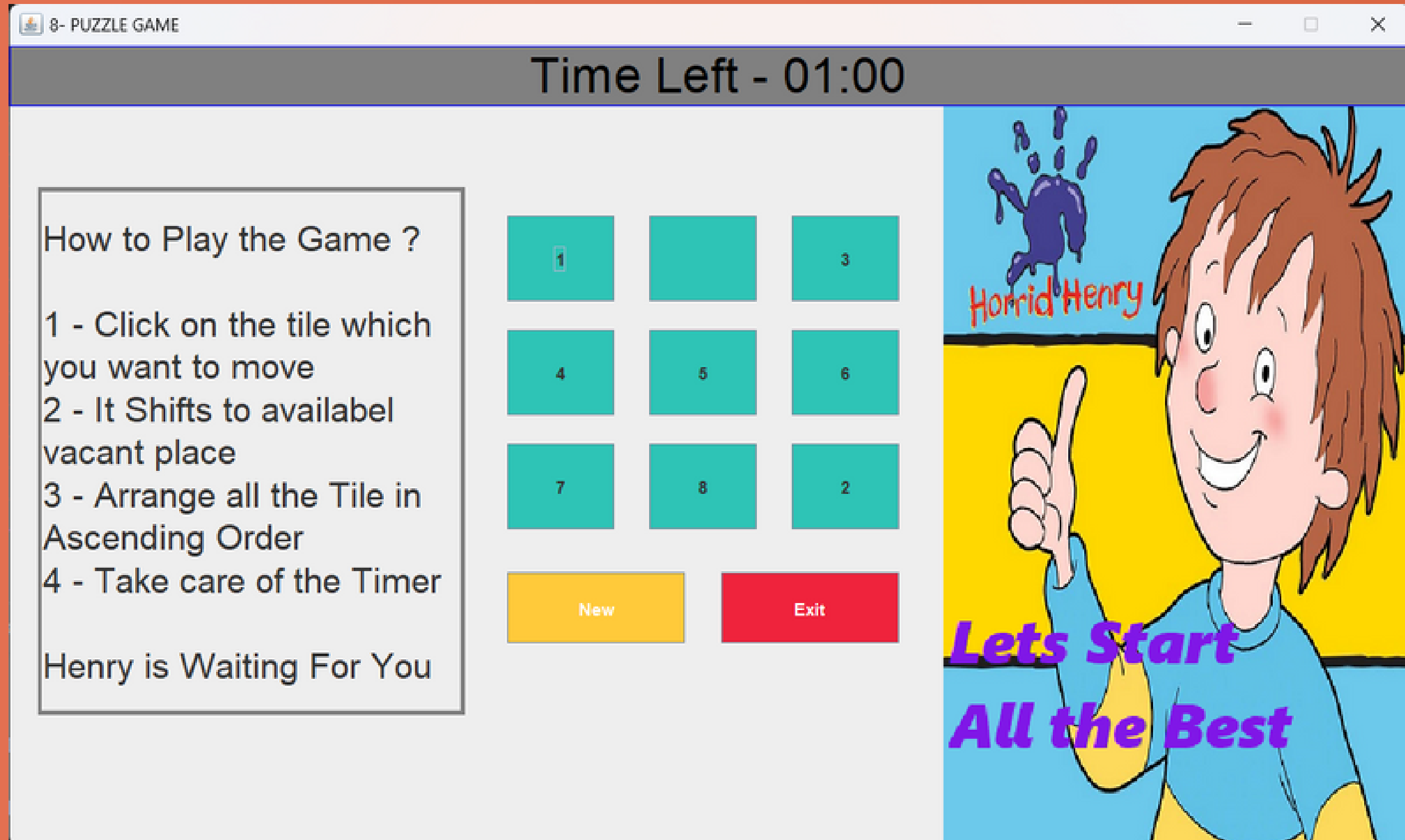
Welcome to the PuZZle gaMe

Username:

Password:

Login

REAL USER INTERFACE



RULE-1

1. Only one tile can be moved at a time, and it can only be moved into the empty space.

RULE-2

To move a tile, simply click on it to select it, and then click on the empty space next to it to move it into that space.



RULE-3

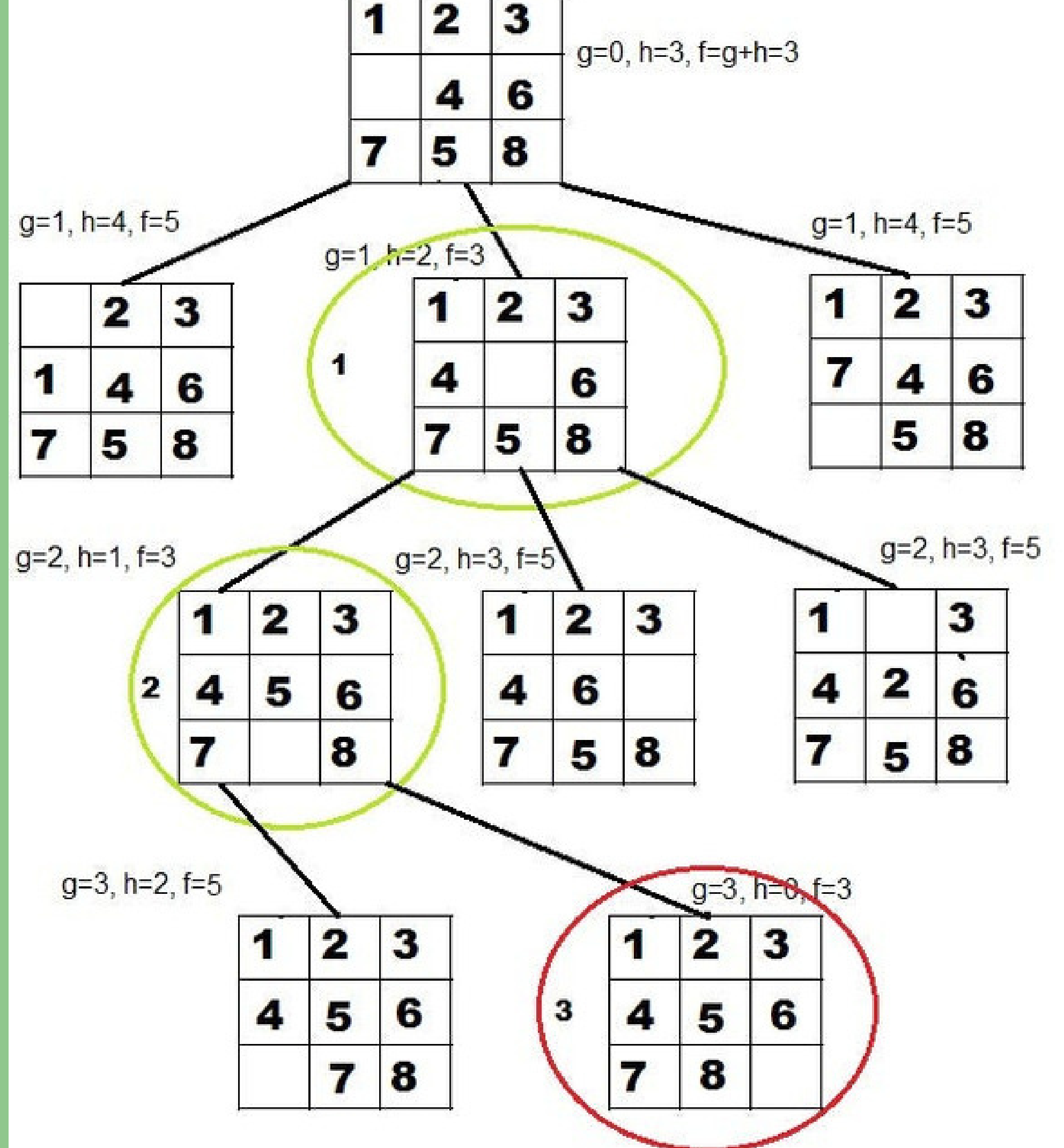
1. The game is won when all the tiles are in order and the empty space is in the bottom right corner.


RULE-4

If the Timer ends and you are unable to arrange the all the elements in correct order then you will lost





VISUAL REPRESENTATION OF LOGIC TO SOLVE 8 - PUZZLE GAME





ADVANTAGES OF PLAYING 8-PUZZLE GAME

- Improves problem-solving skills: The game challenges players to solve a complex problem by analyzing the current state of the puzzle and exploring possible moves to reach the desired state. This improves their problem-solving skills, which can be useful in other areas of life.
 - Enhances critical thinking: The game requires players to think critically and make decisions based on logic and reasoning, which can improve their critical thinking skills.
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- Develops patience and persistence: Solving the puzzle requires patience and persistence, as players may need to try multiple solutions before finding the correct one. This can help develop these important qualities in players.
- Boosts memory and concentration: The game requires players to remember the current state of the puzzle and the possible moves they have explored. This can improve their memory and concentration skills.
- Provides entertainment and relaxation: Playing the game can be a fun and relaxing way to unwind and take a break from daily stressors

REFERENCES



www.google.com
www.chat.open.ai
www.wikipedia.com



**THE 8 PUZZLE HAS OVER 181,000 POSSIBLE
COMBINATIONS, BUT ONLY HALF OF THEM ARE
SOLVABLE.**