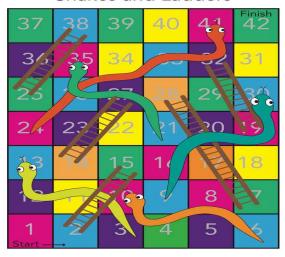
Design Snakes and Ladder

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Snakes and Ladders



Functional Requirements:

- Create a Snake and Ladder game.
- The game should take input n from the user.
- The game should have a board size of n x n.
- There should be n snakes and n ladders placed randomly in the board.
- Each snake will have its head at some number and its tail at a smaller number.
- Each ladder will have its start position at some number and end position at a larger number.
- There can be multiple players in the game.

Rules

- The board has numbers from 1 to n^2.
- The players will make there move turn-by-turn.
- The game will have a six sided dice numbered from 1 to 6 and will always give a random number on rolling it.
- Each player has a piece which is initially kept outside the board (i.e., at position 0).
- Each player rolls the dice when their turn comes.
- Based on the dice value, the player moves their piece forward that number of cells. Ex: If the dice value is 4 and the player is at position 7, the player will move to position 11 (7+4).
- A player wins if he reached the last cell in the board.
- Whenever a player ends up at a cell with the head of the snake, the player should go down to the cell that has the tail of that snake.

- Whenever a player ends up at a cell with the start of the ladder, the player should go up to the cell that has the end of that ladder.
- The game should continue till there are at least 2 players still playing to win.
- After the dice roll, if a piece is supposed to move outside position 100, it does not move.
- Snakes and Ladders do not create a cycle.

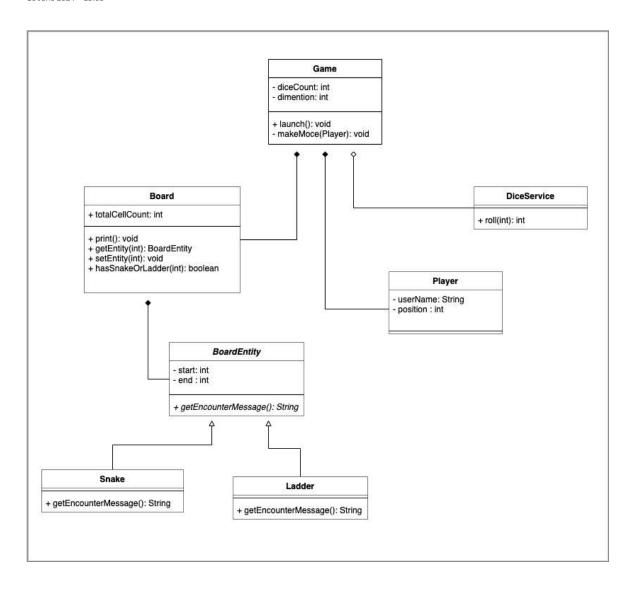
Interfaces / Classes

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Interfaces / Classes

- Board
 - size •
 - map<Integer, BoardEntity>
- Dice
 - Roll dice
- Players
 - username
 - position
- BoardEntity
 - start
 - end
- Snake
 - Start
 - End
- Ladder
 - Start
 - End

- Game
 - diceCount
 - dimension
 - board
 - size
 - players
 - winners



Code Li	nk:		
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Only check this link after you are done with your own implementation: https://github.com/amankumarkeshu/AlgoLLD/tree/main/src/snakesAndLadder