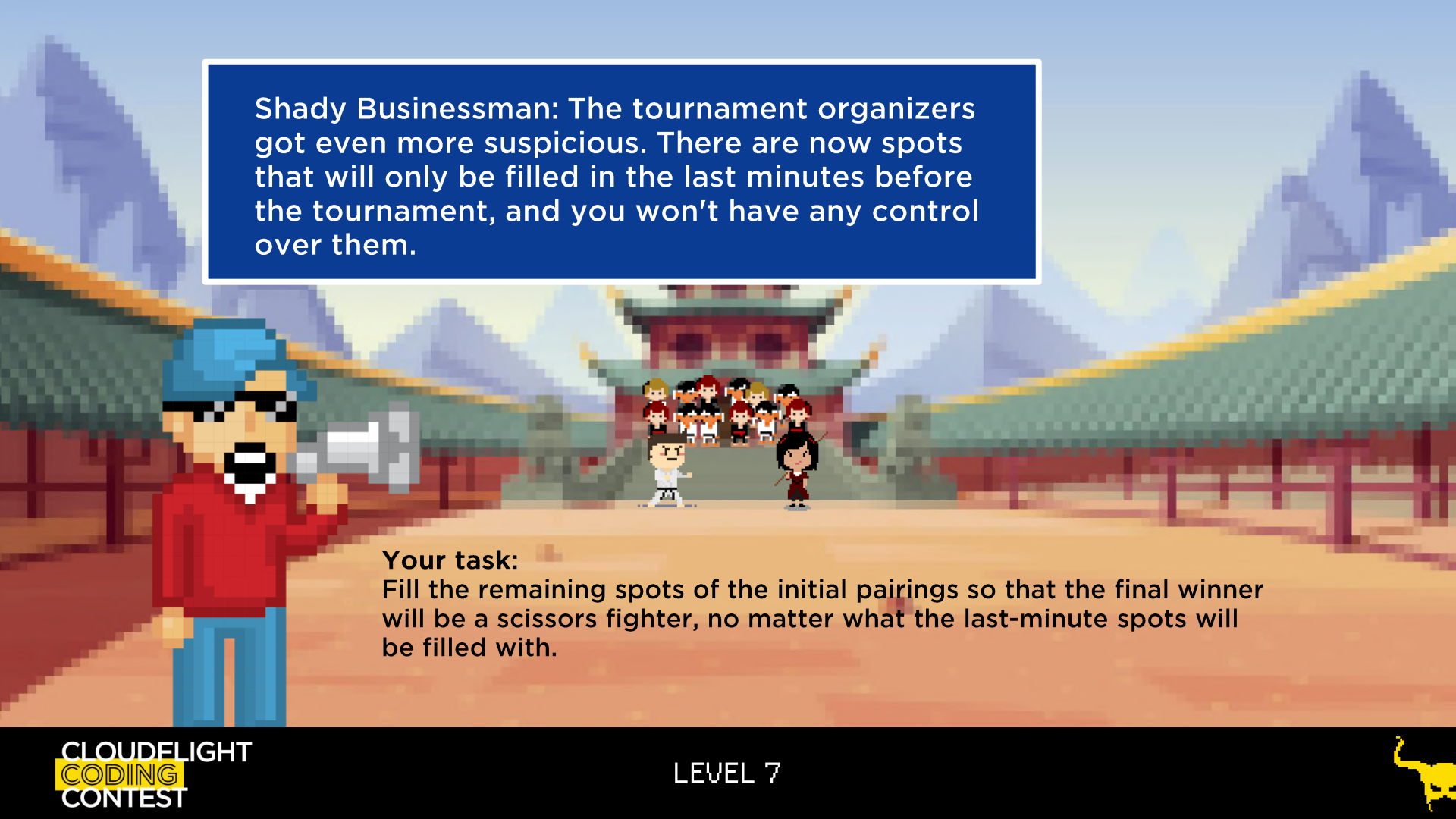


LEVEL 7





Shady Businessman: The tournament organizers got even more suspicious. There are now spots that will only be filled in the last minutes before the tournament, and you won't have any control over them.

Your task:

Fill the remaining spots of the initial pairings so that the final winner will be a scissors fighter, no matter what the last-minute spots will be filled with.



- You are given the initial pairings of a tournament. The spots that will be filled in the last minute are represented by a 'Z', the spots that you can fill are represented by a 'X'.
- Choose the styles of the fighters that are marked with an 'X' so that a scissors fighter will win, no matter what the 'Z' spots will be filled with.



	Input	Output
Format	N M fightingStyles (repeated N times)	fightingStyles (repeated N times)
Types	N (int): number of tournaments M (int): number of fighters in the tournament (will always be a power of 2) fightingStyles (char): the fighting styles of the fighters of the first round	fightingStyles (char): the fighting styles of the fighters of the first round
Example	3 16 ZYPXPSXYZXRPLSZX LZRPPXZLXPLLXPX RSRXSSXZRPLLRRXXZ	ZYPLPSSYZRRPLSZP LZRPPPRZLSPLLSPS RSRPSSPZRPLLRRPZ

The input and output format is identical to the previous level



Rock, Paper, Scissors

Fight well Coders!

Beat the Game!



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