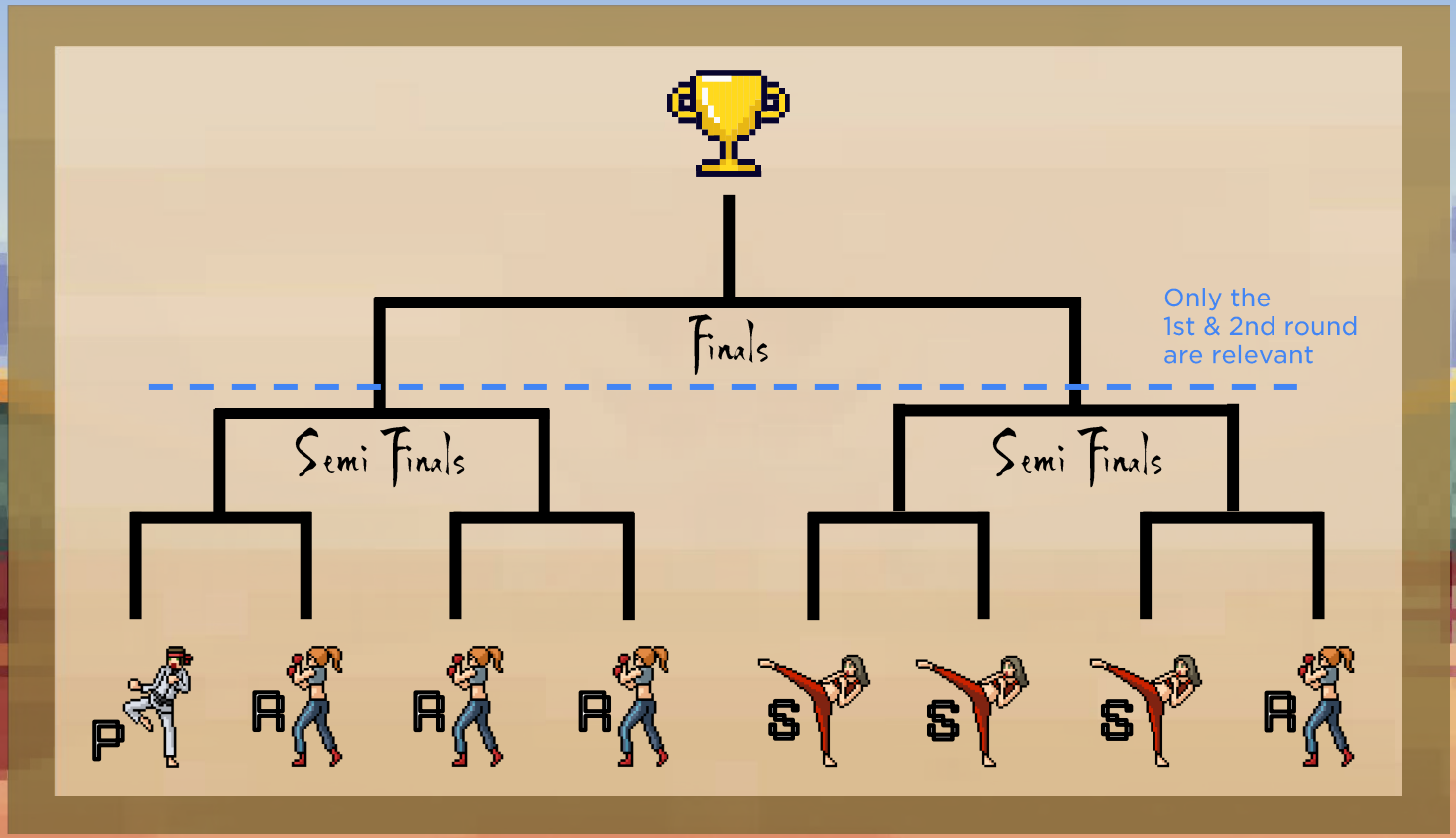
LEVEL 2

Shady Businessman: Multiple rounds of a tournament will be held. You need to tell me the state of a tournament after two rounds.
Your task:
For each tournament determine the styles of the fighters that are still in the tournament after two rounds.

- Each tournament is a single-elimination tournament. You are given the matchups of the tournament's first round. The winners of the first round will compete against each other in the second round
- Just like in level 1, the winners will be determined only by their fight style
- **For each tournament determine the state of the tournament after the second round**


Finals
Semi Finals
Semi Finals
Only the
1st & 2nd round
are relevant
P
R
R
R
S
S
S
R

	Input	Output
Format	`N M` `fightingStyles`	`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 (string): M chars, representing the styles of the fighters`
		`fightingStyles (string): the styles of the participants that are still in the tournament after two rounds`

Example	`3 8`
	`PRRRSSSR`
	`PSRPPSPP`
	`PPPSRSPR`
	
	The first tournament 'PRRRSSSR' can be seen in the diagram on the previous page.
		`PR`
		`SS`
		`SP`

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