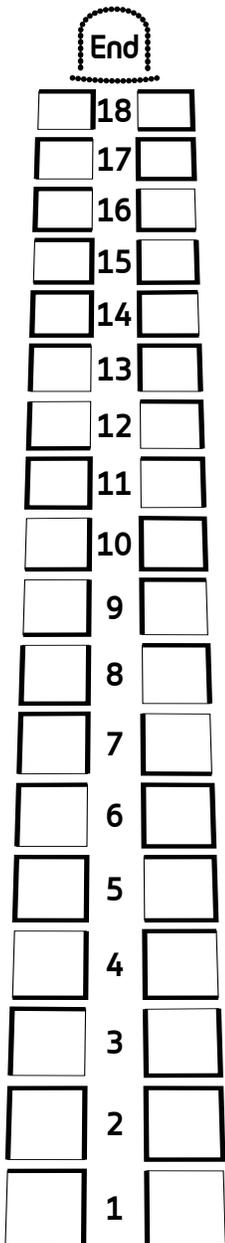


The remaining competitors are trying to cross a glass bridge by jumping between spaced glass tiles. Each row has one tempered glass tile, which is strong enough to hold their weight, and one regular glass tile, which they will fall through if they jump on it. The tempered glass and regular glass look nearly identical, except for the ways the light sometimes catches their edges at the right angle. What is the issue that some of the contestants face that's keeping them from safely crossing the bridge?



Contestant 1: I think I can tell the difference between the types of glass just by looking! I'm pretty sure the first one on the left is tempered! Here, watch!"

Contestant 2: ...I guess he couldn't tell after all.

Contestant 3: Does anyone have something we can throw to listen for a difference between the types of tiles?

Contestant 4: I kept a marble from the last competition. Let's throw it at the right side.

Contestant 5: I have good aim. Let me do it.

Marbles: clank-clink-clank-clink-clink-clink-clink-clink-clink

Contestant 6: I've **spotted** all the tiles the marble bounced on. It was every even numbered tile!

Contestant 7: Is there anything else we can throw?

Contestant 8: How about our shoes?

Contestant 9: Everyone throw your shoes at the left side, since we've already learned some about the right!

Shoes: thud. thud. thud.

Contestant 10: Wow, you all have terrible aim. Most of the shoes missed entirely!

Contestant 11: I **spotted** the tiles that we hit with the shoes. They were the 3rd, 5th, and 13th tiles on the left.

Contestant 12: At least we heard the shoes landing on tiles all making the same sound.

Contestant 13: Is there anything else useful we know or can do?

Contestant 14: A few of us overheard guards laughing earlier. One said, "They'll never expect that the last five rows have tempered glass on the same side."

Contestant 15: And the other replied, "Yeah, especially not since the most they'll have seen in a row by then is 2!"

Contestant 16: Come on! Are you waiting for pigs to fly? Let's cross the bridge!

