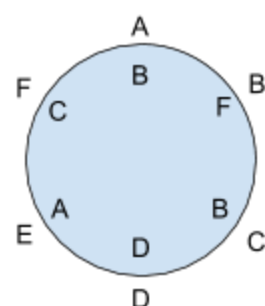
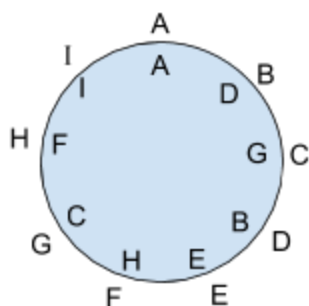
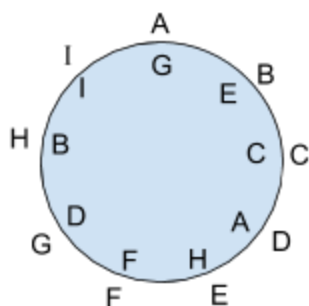
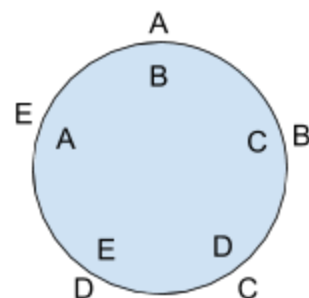
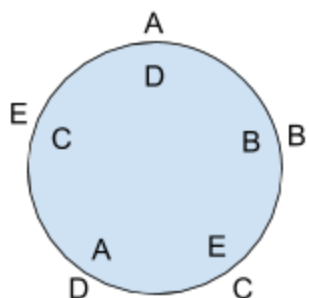
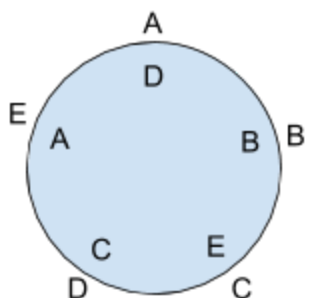
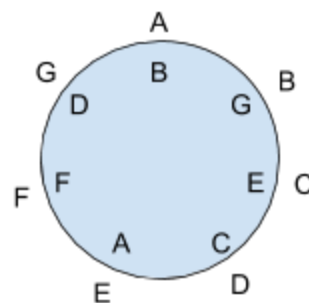
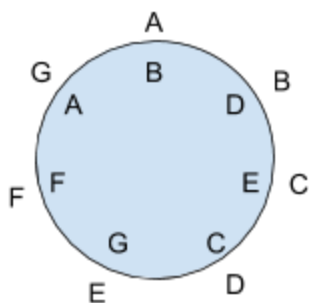
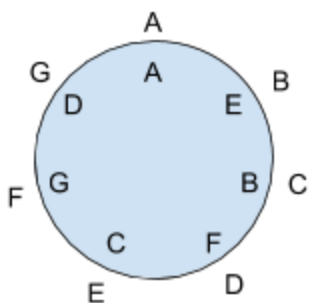


# Table setting investigation

For each table setting below, complete steps 1–3.

1. Decide whether it is a **solution** or not. Mark it Y if it is and N if not.
2. How far is each person from their nametag? Always use the **clockwise distance**, that is, the number of places to the left. Write this number next to each person.
3. Find the **sum** of the distances found in part 2. Write this number in the middle of the table setting.



What patterns do you observe?

What is always true about the number in the middle?

What is true about the distances when the table setting is a solution?