
BIRTHDAY PARTY

Question 1: BIRTHDAY PARTY

CP013Q01

Arrange the guests around the table to meet all of the conditions listed above. Use drag and drop to position the guests around the table.

SCORING

QUESTION INTENT:

Description: Arrange seating at a table subject to complex constraints

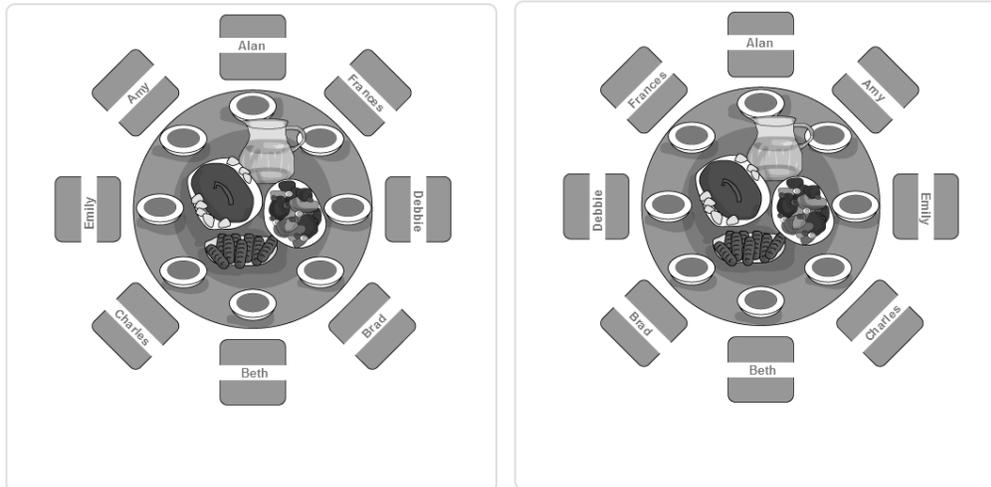
Nature of Problem Situation: Static

Problem Solving Process: Planning and executing

Context: Non-technology, Social

Correct

Gives a solution that meets all nine conditions. There are twelve possible correct solutions (6 solutions, each with a corresponding mirror image solution). One solution (with its mirror image) is pictured below. The other 10 solutions are described in words.



The ten other solutions are:

- Alan-Amy-Emily-Brad-Beth-Charles-Debbie-Frances (and its mirror image).
- Alan-Amy-Emily-Brad-Beth-Frances-Debbie-Charles (and its mirror image).
- Alan-Amy-Frances-Debbie-Brad-Beth-Emily-Charles (and its mirror image).
- Alan-Amy-Frances-Debbie-Beth-Brad-Emily-Charles (and its mirror image).
- Alan-Amy-Debbie-Frances-Beth-Brad-Emily-Charles (and its mirror image).

Partially Correct

Gives a solution that meets eight of the nine conditions. In the examples below, the constraint broken is highlighted.

Incorrect

Other responses.

Missing.