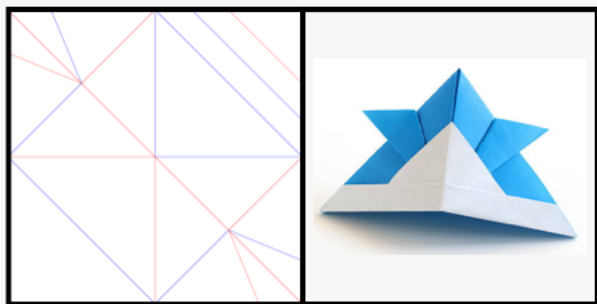


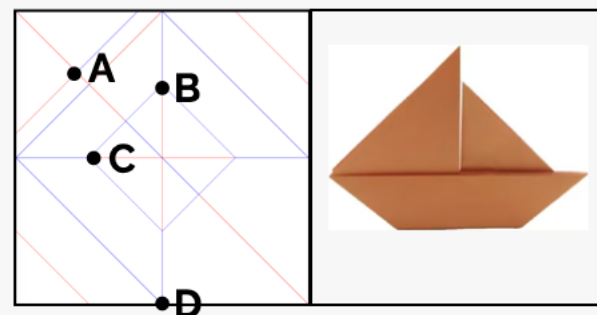
Task1: Pattern Prediction



Q: What pattern will this crease diagram form after being folded?

- A: snail C: teacup
B: samurai hat D: pencil

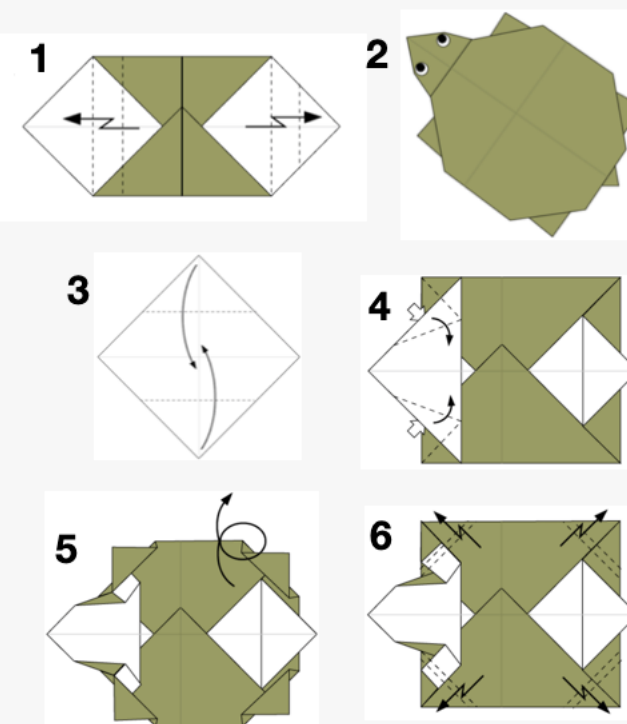
Task2: Spatial Relationship Prediction



Q: After folding, in the sailboat model, which two original points have the largest distance change?

- A: A pt and B pt B: B pt and D pt
C: A pt and C pt D: A pt and D pt

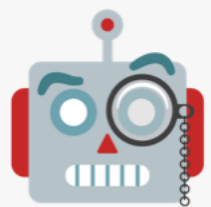
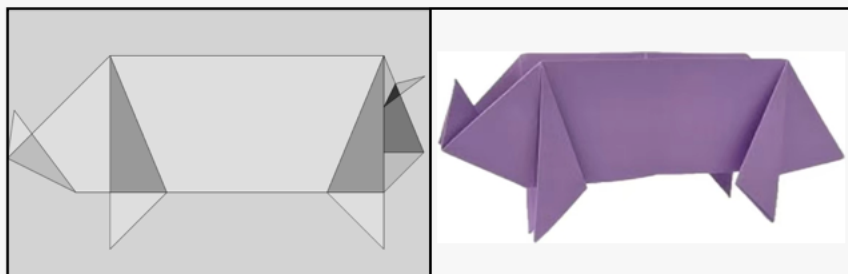
Task3: Multi-step Spatial Reasoning



Q: Which of the following origami sequences is correct?

- A: 3-4-1-6-5-2
B: 3-1-6-4-5-2
C: 3-1-4-6-5-2
D: 3-1-4-5-6-2

Task4: End-to-End CP Code Generation



In-context Learning

Environment Learning

Reinforce Learning

```
{vertices_coords: [0, 0], [1, 0], [1, 1], [0, 1]
edges_vertices: [0, 1], [1, 2], [2, 3], [3, 0], [0, 2]
edges_assignment: [B, B, B, B, M]
faces_vertices: [0, 1, 2], [0, 2, 3]}
```