Cycle Interview Questions

Total 8 sections. Majorly focused on Imagination and Physics concepts and some importance for coding.

Coding Question you will not find in Any Coding Platform they only prepared it.  
  
Coding Section.  
**Question 1.**

1. A matrix (M x N), where each cell represents a point (i, j) in a 2D space.
2. Three points (x1, y1), (x2, y2), (x3, y3) in the matrix.

**Outputs**:

* A list of all points (i, j) in the matrix that lie inside or on the boundary of the triangle formed by the three points.
* A classification of the triangle based on its properties:
  + 0: Not a valid triangle.
  + 1: Equilateral.
  + 2: Right-angled.
  + 3: Isosceles.
  + 4: Both Equilateral and Right-angled.
  + 5: Both Isosceles and Right-angled.

**Question 2.**

### **Problem Breakdown:**

1. **Input**:
   * A 2D matrix of size M×N \times M×N.
   * A weight (e.g., 0.4).
2. **Operation**:
   * For each cell (i, j) in the matrix:
     + Multiply the value of the current cell by the weight.
     + Move or adjust the central element as needed (details depend on the specific operation you're performing).
   * Perform the operation for all cells.

I am not sure about this question but the 2nd question is also from matrix operation.