Question 3:

All the interns and emplyeee are numbered from 1 to n. we can add them to the tables in such a way that every employee's preference is added from 1 to n in the table. E.g.

Employee 1 2 3 4 Intern 1 2 3 4 7 Intern 2 1 9 6 8

This is a kind of an adjacency matrix and if you want to find that which intern prefers which employee we can simply write matrix[i][j]<matrix[i][y] and would get the answer.

Space complexity: O(n²) Time compalexity: O(1)