# 2-D LISTS PROBLEMS:

### Agenda:

- → 2 D list questions
  → Approach for a question
  → List comprehension.

## \* Adding 2-D matrix/lists

- $\Rightarrow$  When i = j, A[i][ij] = 1
- $\Rightarrow$  when i != j, A[i][i] == 0

```
def identity(A):
 n = len(A)
 for row in range(n):
     for col in range(n):
         # Check for main diagonal
         if row == col and A[row][col] != 1:
             return 0
         # Check for non diagonal
         if row != col and A[row][col] != 0:
             return 0
 return 1
```