Exercises (Template and container classes)

- 1. Let A is a matrix with the size of *nxn*, and consider the following subset of matrix norm:
 - Frobenius norm

$$\left| |A| \right|_F = \sqrt{\sum_{i,j} \left| a_{ij} \right|^2}$$

• Row sum norm

$$||A||_{\infty} = \max_{i} \sum_{j} |a_{ij}|$$

Total norm

$$\left| |A| \right|_G = n \cdot \max_{i,j} \sum_j |a_{ij}|$$

Write a program to implementand test the above norms.

2. Implement the linked list as described in Lecturer 12. Test your program (s).