LECTURE 1

Wednesday September 4

LOURSE LEARNING DUTCOMES

Ctol Implement an Application Programming Interface (API).

CLO2 Test the implementation.

CLO3 Document the implementation.

CLO4 Implement aggregations and compositions

CLO5 Implement inheritance.

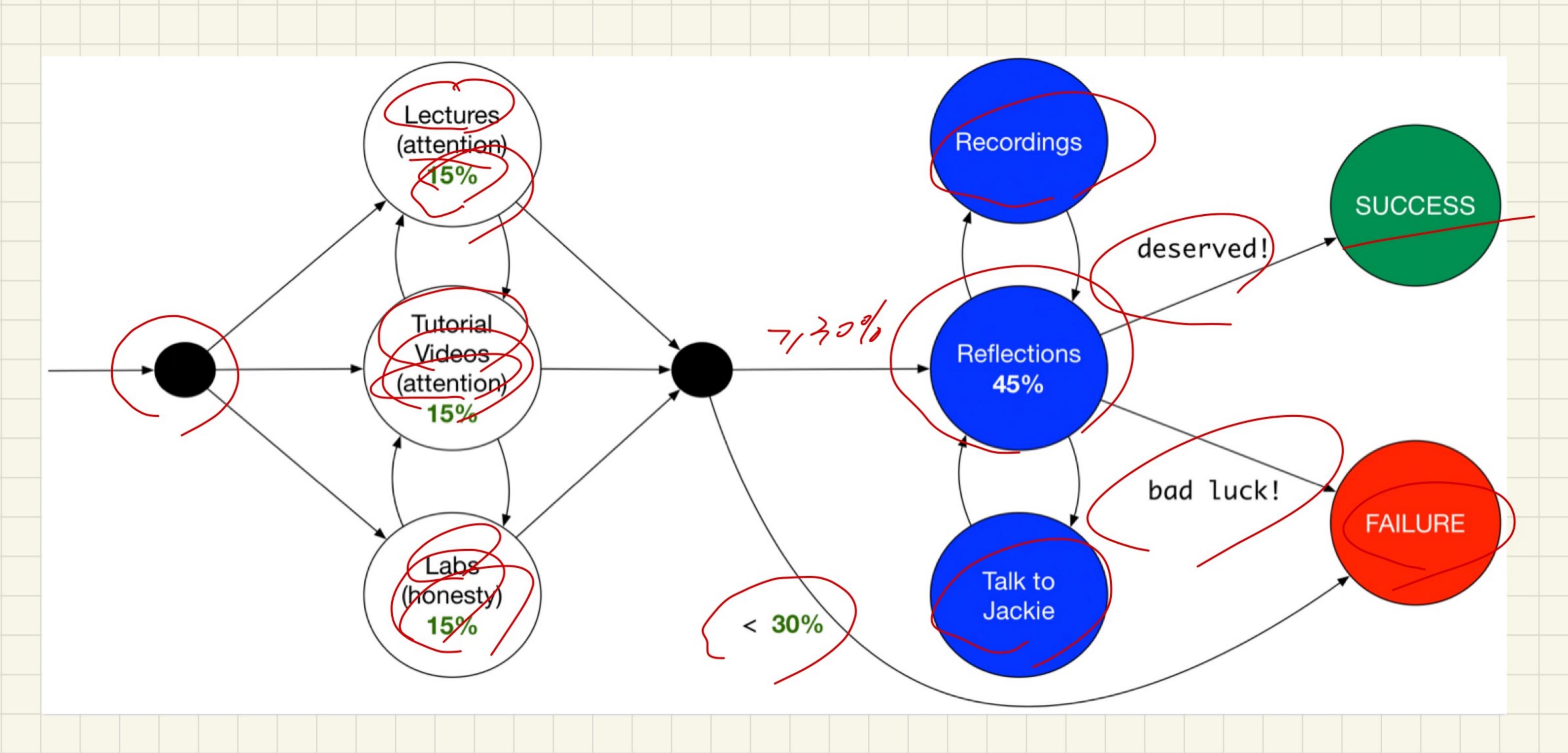
CLO6 Use recursion.

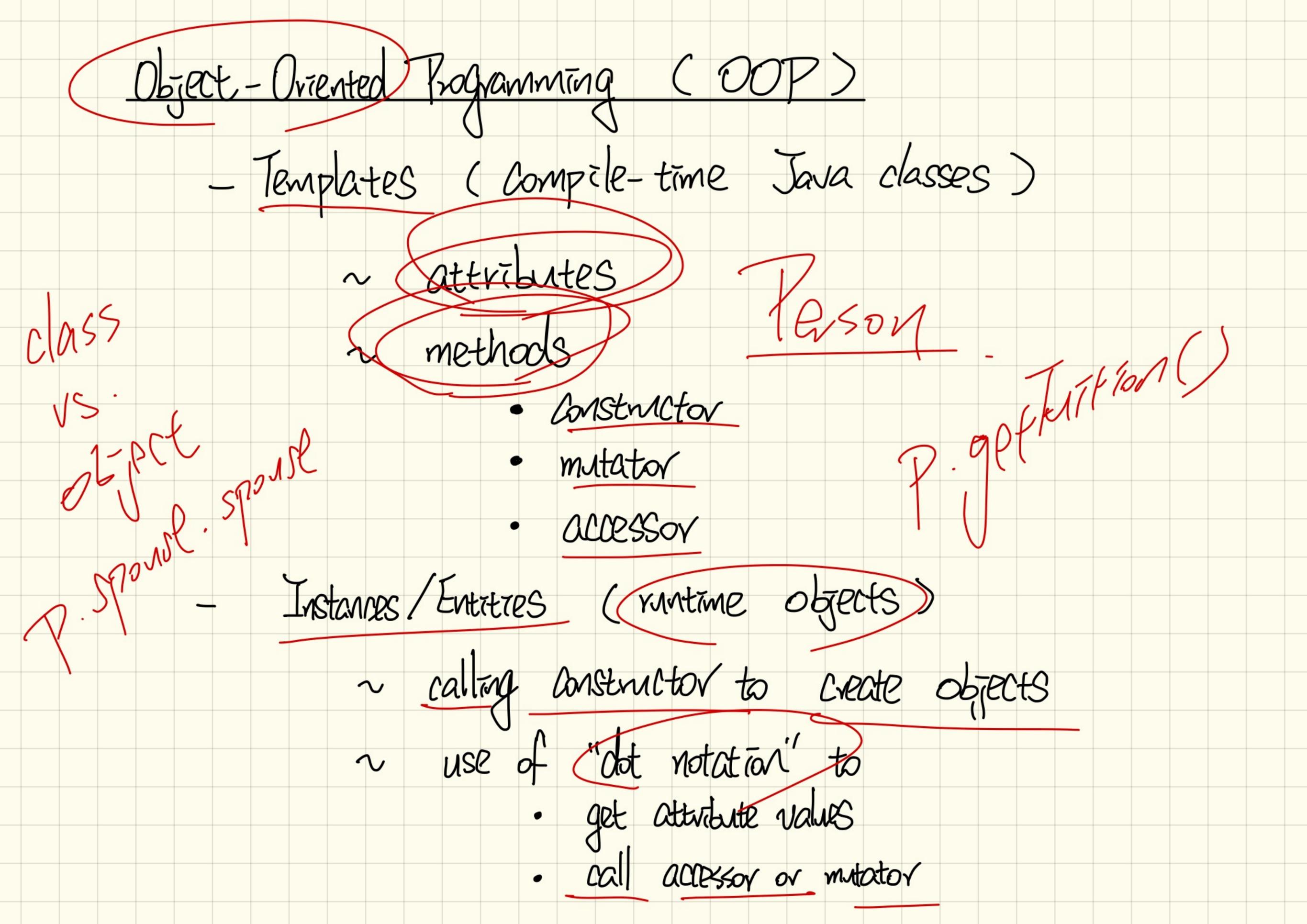
CLO7 Implement linked lists.

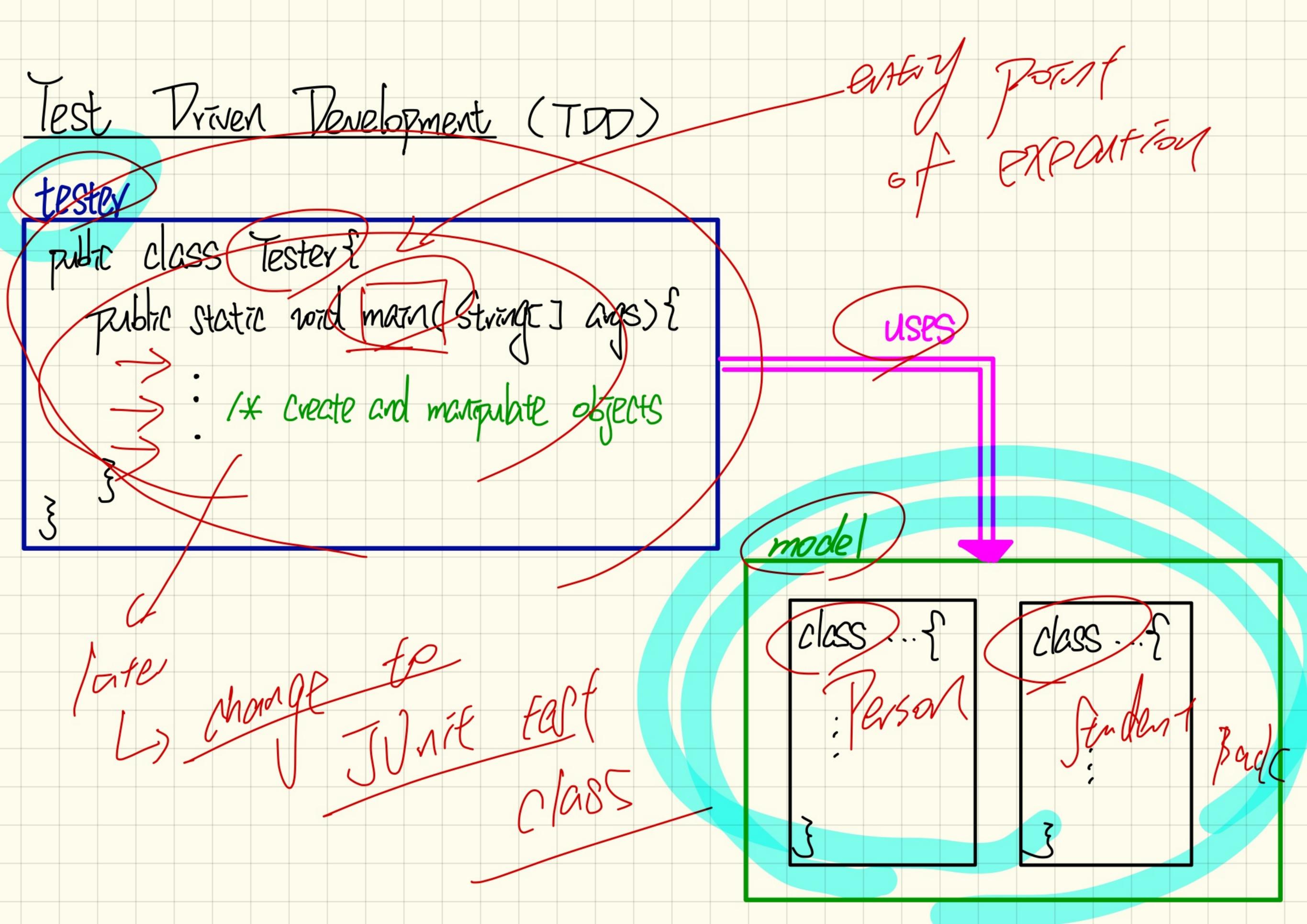
CLO8 (Informally) prove that recursive algorithms are correct and terminate.

CLO9 (Informally) analyse the running time of (recursive) algorithms.

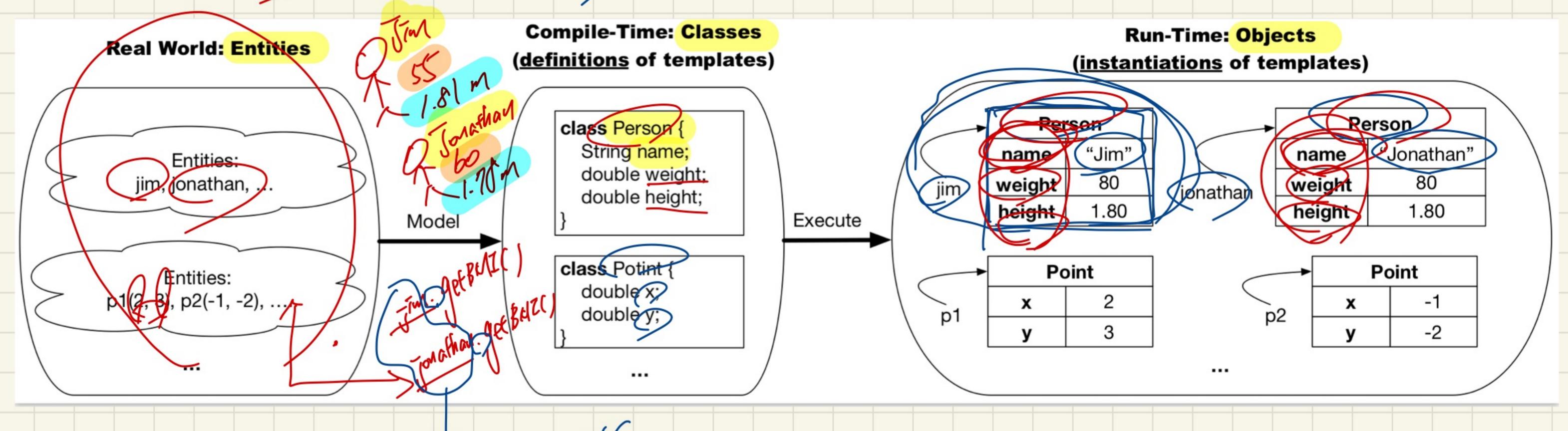
SURVIVAL PATTERNI







THE OBSERVE-MODELLEXECUTE PROCESS



Model: From Entities to Classes
Identify Critical Wouns & Verbs

A person is a being, such as a human, that has certain attributes and behaviour constituting personhood: a person ages and grows on their heights and weights.

Example 2

Points on a two-dimensional plane are identified by their signed distances from the X- and Y-axises. A point may move arbitrarily towards any direction on the plane. Given two points, we are often interested in knowing the distance between them.

