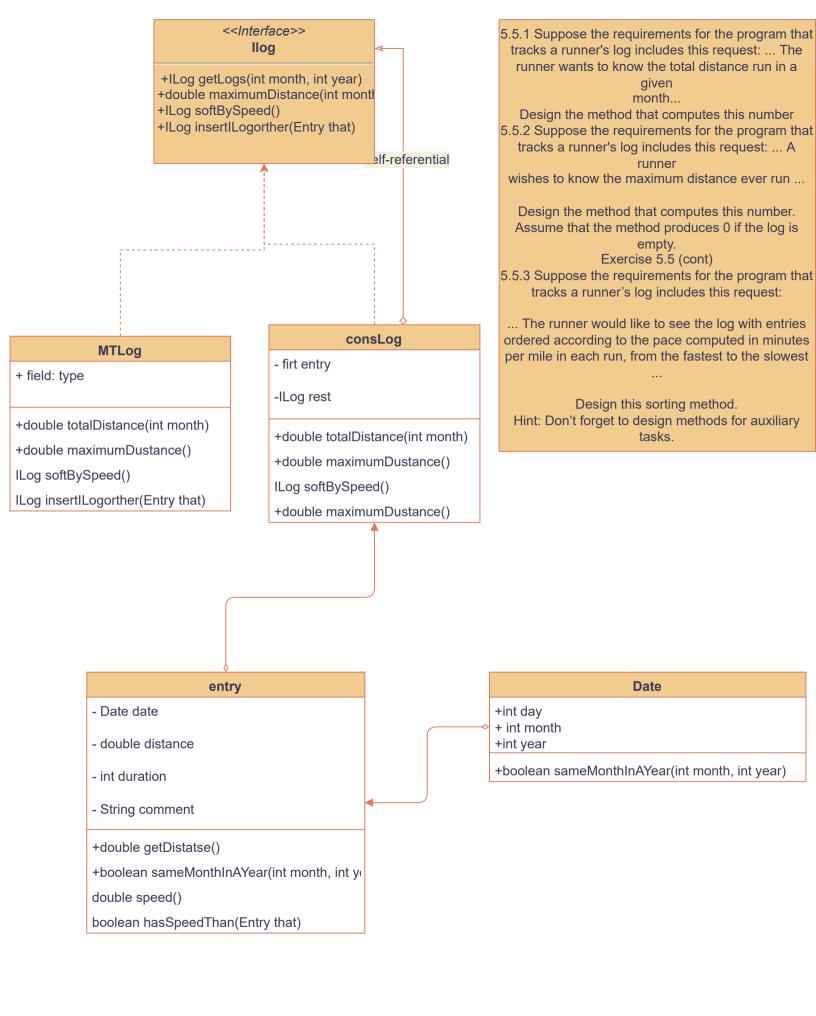


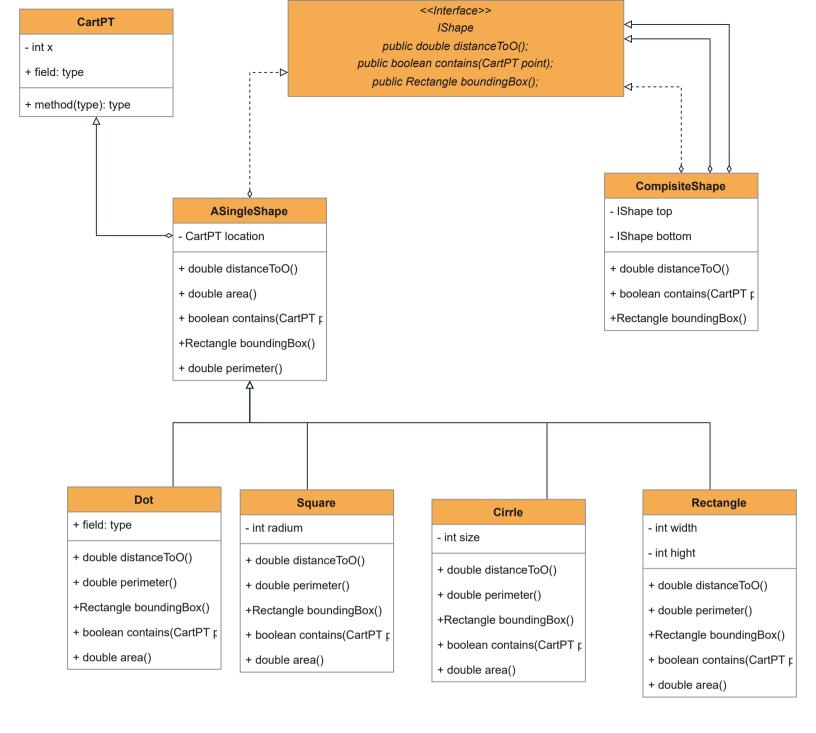
A phone directory combines names with phone numbers. Develop a data definition for phone records and directories.

Develop the methods:

whoseNumber, which determines the name that goes with some given phone number and phone directory.

phoneNumber, which determines the phone number that goes with some given name and phone directory





Develop a drawing program that deals with at least three kinds of shapes: dots, squares, and circles. ...In addition, the program should also deal with overlaying shapes on each other. In the following figure, for example, we have superimposed a circle on the right side of a square:

We could now also superimpose(thêm vào) this compounded shape on another shape and so on.

The user wishes to know how close a combination of shapes is to the origin ... Add a method that determines whether some point in the Cartesian space falls within the boundaries of some shape. ... A graphics program must compute the bounding box for a shape. ...