## Triangles

Write an application that manages a collection with a data structure that allows storing **triplets of real numbers**. These are numbers representing the sides of a triangle. The application should provide the following functionalities:

- a. Only the triplets that can be sides of a triangle are returned from the collection.
- b. The triplet with the largest and the smallest area is returned from the collection, along with the ratio of these areas.
- c. Prepare another data collection with a structure in which you store triplets of points in a coordinate system. Each element in the collection consists of three points with x and y coordinates. Based on the main collection and this new collection, check which i-th element of the first collection has side lengths that match the i-th element of the second collection, meaning that a triangle with vertices at the given coordinates can have the side lengths given in the second collection at the same position. Return a list of objects that will contain both the information about the points and the calculated side lengths.
- d. Return a list of triangles that are right-angled triangles.

From these triangles, determine the one with the largest perimeter.