

Sabancı University
Faculty of Engineering and Natural Sciences

CS301 – Algorithms

Recit 11

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Question 1

Given a polygon and a point, describe an algorithm to find if the point lies inside the polygon or not. The points lying on the border are considered inside.

Question 2

Given a set of points and a line as $ax+by+c = 0$. Describe an algorithm to find a point on the given line for which the sum of distances from the given set of points is minimum.

Question 3

Given two rectangles, write the pseudocode of a simple program to determine whether these two rectangles overlap. Each rectangle is defined by two coordinates: the top left and the bottom right. Consequently, we are provided with four coordinates: