

1996 Paper 10 Question 6

Data Structures and Algorithms

Describe and justify the Graham scan algorithm for finding the convex hull of a set of points in the plane. [8 marks]

How does its cost depend on the number of points? [4 marks]

Give a technique for heuristically eliminating a number of points before doing the scan. In what circumstances can the heuristic fail to help and what would you do about it? [8 marks]