

12-th Bulgarian National Olympiad in Informatics

May 3 and 6, 1996

Problem 4.

Using a digitizing device, the coordinates of N points ($3 \leq N \leq 100$) are taken down. These points can form a convex polygon. Starting from the first point, the plotting device must draw the mentioned convex polygon moving the drawing pen clockwise. Which order of rendering must be applied to join up the points?

The **input** file INPUT4.TXT contains N rows. The i -th row consists of two integers, separated by one space at least. These integers are the coordinates of i -th point.

Output file OUTPUT4.TXT must have N rows, each consisting of an integer meaning the subsequent number of the point drawn by the plotting device.

Source: Matematika i informatika, journal published by Bulgarian Ministry of Education, n. 4, 1996, pp. 53-54.

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