

12-th Bulgarian National Olympiad in Informatics

May 3 and 6, 1996

Problem 3.

Find the smallest positive integer such that after dividing it by a number of a given set of integers (the set cannot consist of more than 45 elements), it gives the corresponding nonnegative remainder.

Each row of the **input** file INPUT3 . TXT contains a pair of nonnegative integers, the subsequent divisor and remainder.

Output file OUTPUT3 . TXT must contain the wanted smallest positive integer.

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

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