

First Bulgarian National Olympiad in Informatics

June 1 and 2, 1985

Second Day.

Problem 3.

Given numbers $a_1, a_2, \dots, a_{2n}$, $n \geq 1$, satisfying inequalities: $0 < a_1 < a_2 < a_3 < \dots < a_{2n-1} < a_{2n}$. Write a programme, that computes the least possible sum of n products of pairs $a_i a_j$ ($i < j$), being participating exactly once all of the $2n$ numbers.

Example: One possible sum is $a_1 a_2 + a_3 a_4 + a_5 a_6 + \dots + a_{2n-1} a_{2n}$.

Source is taken from the jury materials.

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