

16EGMO1

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§1 Solution

Solution. Simple. See that as n is odd we will have k such that $x_k \leq x_{k+1} \leq x_{k+2}$. But then $\min(x_i^2 + x_{i+1}^2) \leq x_k^2 + x_{k+1}^2 \leq 2x_{k+1}x_{k+2} \leq \max(2x_{i+1}x_{i+2})$.

□