

A note on the voting problem

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Let $v(n)$ be the minimum number of voters with transitive preferences which are needed to generate any strong preference pattern (ties not allowed) on n candidates. Let $k = \lfloor \log_2 n \rfloor$. We show that $v(n) \leq n - k$ if n and k have different parity, and $v(n) \leq n - k + 1$ otherwise.

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