

D: Delphi Danger

Problem author: Konrad Letz

Problem

Find n infinite binary strings s_i , which satisfy prophecies of the form

- $s_u[t] \neq s_v[t]$
- t is the smallest index with the above property

Minimize the number of 1's in those strings.

- Iterate over t in decreasing order and process all prophecies with the current t

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- Complexity: $\mathcal{O}(m \log m + n)$ for sorting and checking bipartiteness