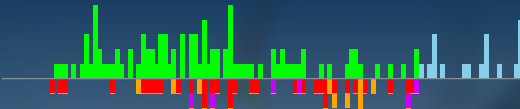


Problem

Given n people sharing an apartment with k keys going on q trips, find who needs to take a key such that no one arrives to an empty apartment without a key.

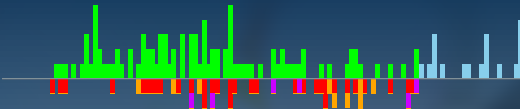


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Observation

A trip only needs a key if it ends when the apartment is empty.

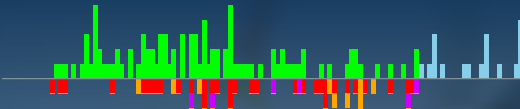


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 - Loop through a sorted array of all arrivals and departures.
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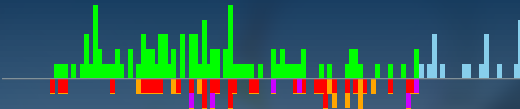


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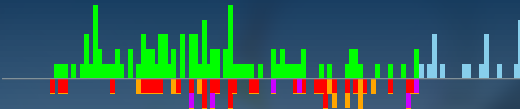


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