Gmail

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Daily Coding Problem: Problem #6 [Hard]

1 message

Daily Coding Problem <founders@dailycodingproblem.com> Sat, Aug 17, 2019 at 11:22 AM
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Daily Coding Problem

Good morning! Here's your coding interview problem for today.

This problem was asked by Google.

An XOR linked list is a more memory efficient doubly linked list. Instead of each node holding `next` and `prev` fields, it holds a field named `both`, which is an XOR of the next node and the previous node. Implement an XOR linked list; it has an `add(element)` which adds the element to the end, and a `get(index)` which returns the node at index.

If using a language that has no pointers (such as Python), you can assume you have access to `get_pointer` and `dereference_pointer` functions that converts between nodes and memory addresses.

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