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FW: River Crossing

1 message

William Ting <william_ting_2@sfu.ca> Sun, Jul 2, 2023 at 6:10 AM
To: "williamdjting@gmail.com" <williamdjting@gmail.com>

From: Daily Byte
Sent: Sunday, July 2, 2023 6:10:02 AM (UTC-08:00) Pacific Time (US & Canada)
To: William Ting
Subject: River Crossing

The Daily Byte

Good morning,

Need help with yesterday's problem? Start getting solutions.

> Today's Byte

A frog is attempting to cross a river to reach the other side. Within the river, there are stones located at different positions given by a `stones` array (this array is in sorted order). Starting on the first stone (i.e. `stones[0]`), the frog makes a jump of size one potentially landing on the next stone. If the frog's last jump was of size `x`, the frog's next jump may be of size `x - 1`, `x`, or `x + 1`. Given these following conditions return whether or not the frog can reach the other side.
Note: The frog may only jump in the forward direction.

Ex: Given the following `stones`...

```
stones = [0, 1, 10], return false.
This question is asked by Amazon. The frog can jump from stone
0 to stone 1, but then the gap is too far to jump to the last
stone (i.e. the stone at position 10)
```

Ex: Given the following stones…

```
stones = [0, 1, 2, 4], return true.
The frog can jump from stone 0, to stone 1, to stone 2, to
stone 4.
```

Thanks,
The Daily Byte
