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FW: Setting Sail
1 message

William Ting <william_ting_2@sfu.ca>   Tue, Aug 22, 2023 at 6:08 AM
To: "williamdjting@gmail.com" <williamdjting@gmail.com>

From: Daily Byte
Sent: Tuesday, August 22, 2023 6:08:50 AM (UTC-08:00) Pacific Time (US & Canada)
To: William Ting
Subject: Setting Sail

The Daily Byte

Good morning,

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

> Today's Byte

You're about to set sail off a pier and first want to count the number of ships that are already in the harbor. The harbor is deemed safe to sail in if the number of boats in the harbor is strictly less than `limit` . Given a 2D array that presents the harbor, where `0` represents water and `S` represents a ship, return whether or not it's safe for you to set sail. Note: All ships in the harbor can only lie entirely vertically or entirely horizontally and cannot be connected to another ship.

Ex: Given the following 2D array `harbor` and value `limit` ...

```
harbor = [
    [0, 0, S],
```

```
    [S, 0, 0],
    [0, 0, S]
], limit = 5, return true. You setting sail would cause there
to be 4 ships in the harbor which is under the limit of 5.
```

Ex: Given the following 2D array

`harbor` and value

`limit` ...

```
harbor = [
    [0, 0, 0],
    [S, 0, S],
    [0, 0, S]
], limit = 3, return false. The harbor is not safe to sail in
since you setting sail would cause the number of boats in the
harbor to reach the limit.
```

Thanks,

The Daily Byte

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