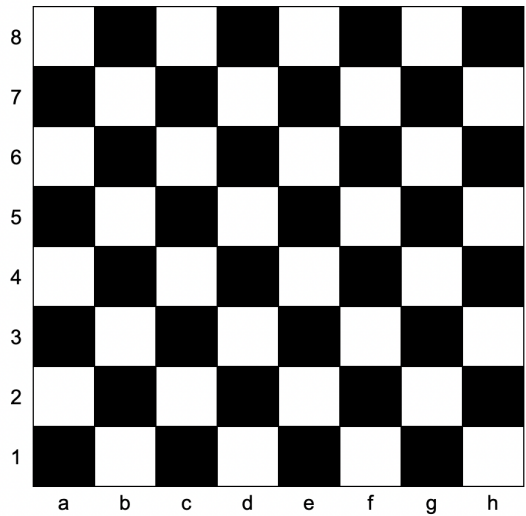## 5705. Determine Color of a Chessboard Square

My Submissions (/contest/biweekly-contest-49/problems/determine-color-of-a-chessboard-square/submissions/)

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You are given `coordinates`, a string that represents the coordinates of a square of the chessboard. Below is a chessboard for your reference.

User Accepted:	1885
User Tried:	1978
Total Accepted:	1906
Total Submissions:	2184
Difficulty:	Easy

Return `true` *if the square is white, and* `false` *if the square is black*.

The coordinate will always represent a valid chessboard square. The coordinate will always have the letter first, and the number second.

Example 1:

```
Input: coordinates = "a1"
Output: false
Explanation: From the chessboard above, the square with coordinates "a1" is black, so return false.
```

Example 2:

```
Input: coordinates = "h3"
Output: true
Explanation: From the chessboard above, the square with coordinates "h3" is white, so return true.
```

Example 3:

```
Input: coordinates = "c7"
Output: false
```

Constraints:

- `coordinates.length == 2`
- `'a' <= coordinates[0] <= 'h'`
- `'1' <= coordinates[1] <= '8'`

JavaScript ▼

```javascript
1  const squareIsWhite = (c) => {
2      let f = c[0].charCodeAt() - 96;
3      let res;
4      if (f & 1) {
5          if (c[1] & 1) {
6              res = 'b';
7          } else {
```

```
 8              res = 'w';
 9          }
10 ▾    } else {
11 ▾        if (c[1] & 1) {
12              res = 'w';
13 ▾        } else {
14              res = 'b';
15          }
16      }
17      return res == 'w';
18  };
```

☐ **Custom Testcase**   (Use Example Testcases)

(● Run)   (☁ Submit)

Submission Result: Accepted (/submissions/detail/475922050/) ❓   (More Details ❯ (/submissions/detail/475922050/))

Share your acceptance!