BACK

Challenge **mirrorBase**

1D 22H 43M 13S

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DESCRIPTION MY SOLUTIONS LEADERBOARD COMMENTS README CODEWRITING

Given `number` (in the form of a string) represented in `base1`, we'd like to determine whether its digits form a palindrome when represented in `base2`.

Example

- For `number = "121"`, `base1 = 4`, and `base2 = 2`, the output should be `mirrorBase(number, base1, base2) = false`.

  `121` in base `4` is `1 * 16 + 2 * 4 + 1 * 1 = 25`, and in base `2`, that's `11001`, which is not a palindrome.

- For `number = "505"`, `base1 = 6`, and `base2 = 7`, the output should be `mirrorBase(number, base1, base2) = true`.

  `505` in base `6` is `5 * 36 + 0 * 6 + 5 * 1 = 185`, and in base `7`, that's `353`, which is a palindrome.

Input / Output

- **[execution time limit] 4 seconds (js)**
- **[input] string number**

  A string representing a number in `base1`.

  Guaranteed constraints:

  `1 ≤ number.length ≤ 31`

- **[input] integer base1**

  An integer representing the base of the input.

  Guaranteed constraints:

  `2 ≤ base1 ≤ 36`

- **[input] integer base2**

  An integer representing the base of the output.

  Guaranteed constraints:

  `2 ≤ base2 ≤ 36`

- **[output] boolean**

  A boolean value that's `true` if the digits of `number` form a palindrome when represented in `base2`.

[JavaScript (ES6)] Syntax Tips

```
// Prints help message to the console
// Returns a string
function helloWorld(name) {
    console.log("This prints to the console when you Run Tests");
    return "Hello, " + name;
}
```