


BACK

Unique Digit Products

177,554

▼

<DESCRIPTIONMY SOLUTIONSLEADERBOARDCOMMENTSREADME>

CODEWRITINGSCORE: 300/300

Let's call `product(x)` the product of `x` 's digits. Given an array of integers `a` , calculate `product(x)` for each `x` in `a` , and return the number of distinct results you get.

Example

For `a = [2, 8, 121, 42, 222, 23]` , the output should be `uniqueDigitProducts(a) = 3` .

Here are the products of the array's elements:

- `2` : `product(2) = 2` ;
- `8` : `product(8) = 8` ;
- `121` : `product(121) = 1 * 2 * 1 = 2` ;
- `42` : `product(42) = 4 * 2 = 8` ;
- `222` : `product(222) = 2 * 2 * 2 = 8` ;
- `23` : `product(23) = 2 * 3 = 6` .

As you can see, there are only `3` different products: `2` , `6` and `8` .

Input/Output

- [execution time limit] 4 seconds (js)
- [input] array.integer a

Guaranteed constraints:

`1 ≤ a.length ≤ 105` ,
`1 ≤ a[i] ≤ 109` .

- [output] integer

The number of different digit products in `a` .

[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;
}
```