

DESCRIPTION

SOLUTIONS 6

COMMENTS 0

README

CODEWRITING

It's your lucky day: you just landed a role on the hit TV show "The Walking Dead"!

In your first episode, the scene is pretty stressful already: you've found a serum that will make you immune to zombies, but it's inside a locked safe (and the zombies are scratching outside the door!). First you try to shoot out the lock mechanism with your gun, to no avail. Suddenly you notice a message scrawled on the side of the safe: "the password is a perfect square or a perfect cube". There is also a `number` on this note.

Determine the number of ways you can rearrange the digits of the `number` to make a correct password. If the given `number` is already a perfect square or a perfect cube, include it in your answer as well. In your answer, also include correct passwords with leading zeroes.

Example

- For `number = 414` , the output should be `perfectSquareOrCube(number) = 2` .

You can get numbers `144` , which is a perfect square of `12` , and `441` , which is a perfect square of `21` .

- For `number = 64` , the output should be `perfectSquareOrCube(number) = 1` .

The number `64` is a perfect square of `8` and a perfect cube of `4` .

- For `number = 71` , the output should be `perfectSquareOrCube(number) = 0` .

`71` and `17` aren't perfect squares or perfect cubes.

Input/Output

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

An integer, the number on the note.

*Guaranteed constraints:*

$1 \leq \text{number} \leq 900$  .

- [output] integer

The number of ways to rearrange the digits of the `number` to get a perfect square or a perfect cube.

[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;
}
```