Happy Number - LeetCode

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202. Happy Number

Write an algorithm to determine if a number n is happy.

A **happy number** is a number defined by the following process:

- Starting with any positive integer, replace the number by the sum of the squares of its digits.
- Repeat the process until the number equals 1 (where it will stay), or it loops endlessly in a cycle which does not include 1.
- Those numbers for which this process **ends in 1** are happy.

Return true if n is a happy number, and false if not.

Example 1:

```
Input: n = 19

Output: true

Explanation:

1^2 + 9^2 = 82

8^2 + 2^2 = 68

6^2 + 8^2 = 100

1^2 + 0^2 + 0^2 = 1
```

Example 2:

Input: n = 2
Output: false

Constraints:

1 <= n <= 2³¹ - 1