

## 202. Happy Number

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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:
12 + 92 = 82
82 + 22 = 68
62 + 82 = 100
12 + 02 + 02 = 1
```

### Example 2:

```
Input: n = 2
Output: false
```

### Constraints:

- $1 \leq n \leq 2^{31} - 1$

Seen this question in a real interview before? 1/4

Yes No

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