65. Valid Number

Description

A valid number can be split up into these components (in order):

- 1. A decimal number or an integer.
- 2. (Optional) An 'e' or 'E', followed by an integer.

A decimal number can be split up into these components (in order):

- 1. (Optional) A sign character (either '+' or '-').
- 2. One of the following formats:
 - 1. One or more digits, followed by a dot '.'.
 - 2. One or more digits, followed by a dot ['.'], followed by one or more digits.
 - 3. A dot '.', followed by one or more digits.

An integer can be split up into these components (in order):

- 1. (Optional) A sign character (either '+' or '-').
- 2. One or more digits.

For example, all the following are valid numbers:

```
["2", "0089", "-0.1", "+3.14", "4.", "-.9", "2e10", "-90E3", "3e+7", "+6e-1", "53.5e93", "-123.456e789"], while the following are not valid numbers: ["abc", "1a", "1e", "e3", "99e2.5", "--6", "-+3", "95a54e53"].
```

Given a string s, return true if s is a valid number.

Example 1:

```
Input: s = "0"
Output: true
```

Example 2:

```
Input: s = "e"
Output: false
```

Example 3:

```
Input: s = "."
Output: false
```

Constraints:

- 1 <= s.length <= 20
- s consists of only English letters (both uppercase and lowercase), digits (0-9), plus '+', minus '-', or dot '.'.