Explain to me why below input is not valid numbers ? "abc", "1a", "1e", "e3", "99e2.5", "--6", "-+3", "95a54e53

"abc", "1a", "1e", "e3", "99e2.5", "--6", "-+3", "95a54e53" are not valid numbers because they don't follow the rules for what a valid number is.

* "abc" does not start with a whole number, it starts with letters.
* "1a" starts with a whole number but it has a letter 'a' after it.
* "1e" starts with a whole number but it has an 'e' after it, but it is not followed by a whole number.
* "e3" starts with an 'e' but it is not preceded by a whole number.
* "99e2.5" starts with a whole number and has an 'e', but it has a dot '.' after the whole number after the 'e'.
* "--6" starts with two '-' signs, it can only start with one or none.
* "-+3" starts with a '-' sign and '+' sign, it can only start with one.
* "95a54e53" starts with a whole number but it has a letter 'a' after it.

All of these examples do not follow the rules for what a valid number is, so the program returns false for each of them.

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

A decimal number or an integer.

(Optional) An 'e' or 'E', followed by an integer.

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

(Optional) A sign character (either '+' or '-').

One of the following formats:

One or more digits, followed by a dot '.'.

One or more digits, followed by a dot '.', followed by one or more digits.

A dot '.', followed by one or more digits.

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

(Optional) A sign character (either '+' or '-').

One or more digits.