Level: Hard

Validate if a given string can be interpreted as a decimal number.

Some examples:  
"0" => true  
" 0.1 " => true  
"abc" => false  
"1 a" => false  
"2e10" => true  
" -90e3   " => true  
" 1e" => false  
"e3" => false  
" 6e-1" => true  
" 99e2.5 " => false  
"53.5e93" => true  
" --6 " => false  
"-+3" => false  
"95a54e53" => false

**Note:** It is intended for the problem statement to be ambiguous. You should gather all requirements up front before implementing one. However, here is a list of characters that can be in a valid decimal number:

* Numbers 0-9
* Exponent - "e"
* Positive/negative sign - "+"/"-"
* Decimal point - "."

Of course, the context of these characters also matters in the input.

**Update (2015-02-10):**  
The signature of the C++ function had been updated. If you still see your function signature accepts a const char \* argument, please click the reload button to reset your code definition.