```cpp
bool isSignChar(char s)
{
    if( (s == '+') || (s == '-') )
    {
        return true;
    }
    return false;
}

char* skipSpace(char* s)
{
    while(*s == ' ')
    {
        s++;
    }

    return s;
}

bool isDigit(char s)
{
    if( ('0' <= s) && (s <= '9') )
    {
        return true;
    }

    return false;
}

bool isEe(char s)
{
    if( (s == 'E') || (s == 'e') )
    {
        return true;
    }

    return false;
}

bool isDot(char s)
{
    if( s == '.' )
    {
        return true;
    }

    return false;
}

bool isNumber(char* s) {
    int dot_count;
    int e_count;
    int e_count_h;
    int e_count_e;
    int d_count_h;
    int d_count_e;
    int sign;
    bool result;

    dot_count = 0;
    e_count = 0;
    s = skipSpace(s);
    sign = INT_MAX;
    e_count_h = INT_MAX;
    e_count_e = INT_MAX;
    d_count_h = INT_MAX;
    d_count_e = INT_MAX;
    result = true;

    if(strlen(s) == 1)
    {
        if( isSignChar(*s) || isEe(*s) || isDot(*s))
        {
            result = false;
        }
    }else
    {
        while(*s != '\0')
        {
            if(isSignChar(*s))
            {
                if(sign == INT_MAX)
                {
                    sign = (*s == '+') ? 1:-1;
                }else
                {
                    result = false;
                    break;
                }

            }else
            {
                sign = 1;

                if( isDot(*s) )
                {
                    if(e_count == 0 && dot_count == 0)
```

```
                        {
                            dot_count++;
                        }else
                        {
                            result = false;
                            break;
                        }

                    }else if( isEe(*s) )
                    {
                        if(e_count == 0)
                        {
                            e_count++;
                        }else
                        {
                            result = false;
                            break;
                        }
                        sign = INT_MAX;
                        dot_count = 0;
                    }else
                    {
                         if( !isDigit(*s) )
                         {
                             result = false;
                             break;
                         }else
                         {
                            if(e_count == 0)
                            {
                                e_count_h = 1;
                            }else
                            {
                                e_count_e = 1;
                            }

                            if(dot_count == 0)
                            {
                                d_count_h = 1;
                            }else
                            {
                                d_count_e = 1;
                            }
                        }
                    }
                }

                s++;

        }
    }

    if( e_count == 1 && (e_count_h == INT_MAX || e_count_e == INT_MAX) )
    {
        result = false;
    }

    if( dot_count == 1 && (d_count_h == INT_MAX && d_count_e == INT_MAX) )
    {
        result = false;
    }

    return result;
}
```