链滴

[每日 LeetCode] 832. Flipping an Image

作者：Hanseltu
原文链接：https://ld246.com/article/1555072574130
来源网站：链滴

Description:
Given a binary matrix <code>A</code>, we want to flip the image horizontally, then inve
t it, and return the resulting image.
To flip an image horizontally means that each row of the image is reversed. For ex
mple, flipping <code>[1, 1, 0]</code> horizontally results in <code>[0, 1,
1]</code>.
To invert an image means that each <code>0</code> is replaced by <code>1</c
de>, and each <code>1</code> is replaced by <code>0</code>. For example, inverti
g <code>[0, 1, 1]</code> results in <code>[1, 0, 0]</code>.
Example 1:
<pre><code class="highlight-chroma"><span class="highlight
cl">Input: [[1,1,0],[1,0,1],[0,0,0]]
Output: [[1,0,0],[0,
,0],[1,1,1]]
Explanation: First
everse each row: [[0,1,1],[1,0,1],[0,0,0]].
Then, invert the i
age: [[1,0,0],[0,1,0],[1,1,1]]
</code></pre>
Example 2:
<pre><code class="highlight-chroma"><span class="highlight
cl">Input: [[1,1,0,0],[1,0,0,1],[0,1,1,1],[1,0,1,0]]
Output: [[1,1,0,0],[
,1,1,0],[0,0,0,1],[1,0,1,0]]
Explanation: First
everse each row: [[0,0,1,1],[1,0,0,1],[1,1,1,0],[0,1,0,1]].
Then invert the i
age: [[1,1,0,0],[0,1,1,0],[0,0,0,1],[1,0,1,0]]
</code></pre>
Notes:

<code>1 <= A.length = A[0].length <= 20</code>
<code>0 <= A[i][j] <= 1</code>

<hr>
思路：本题要求图像的翻转，意思是将二维数组中的数组先水平翻转，然后再对每个元素取反。
++ 中有数组翻转的函数 reverse，直接调用即可。
<hr>
C++ 代码
<pre><code class="highlight-chroma"><span class="highlight
cl">class Solution {
public:
    vector<vecto
<int>> flipAndInvertImage(vector<vector<int>>& A) {
        for (int i = 0; i
< A.size(); i++)
        {
            reverse(A[i]
begin(),A[i].end());
            for (int j =
; j < A[i].size(); j++)
            {
                A[i][j] =
 - A[i][j];

```
        }
    }
    return A;
    }
};
```

<hr>
运行时间：12ms
运行内存：9.4M