/\*

Given n non-negative integers a1, a2, ..., an, where each represents a point at coordinate (i, ai). n vertical lines are drawn such that the two endpoints of line i is at (i, ai) and (i, 0). Find two lines, which together with x-axis forms a container, such that the container contains the most water.

Note: You may not slant the container and n is at least 2.

题目要求：求包含的面积,用两个指针l和r，初始化分别指向数组的两端，然后在向中间移动找到最大容量。如果l指向的数字小，则l需要右移才有可能获得更大容量，因为此时如果左移r，得到的容量肯定比左移r之前的容量小（高度已经被较小的l限制住了）。如果r指向的数字小，则需要左移r。这样，当l和r相遇的时候，最大的容量就是我们需要的。

时间复杂度：O(n)

空间复杂度：O(1)

\*/

class Solution {

public:

int maxArea(vector<int>& height)

{

int m1=0;

int m2=height.size()-1;

int high,mm;

int maxa=0;

while(m1<m2)

{

high=min(height[m1],height[m2]);

maxa=max(maxa,high\*(m2-m1));

if(height[m1]>height[m2])

{

mm=m2-1;

while(height[mm]<=height[m2])

mm--;

m2=mm;

}

else

{

mm=m1+1;

while(height[mm]<=height[m1])

mm++;

m1=mm;

}

}

return maxa;

}

};