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class Solution:
    def trap(self, height: List[int]) -> int:
        res = 0
        l, r = 0, len(height) - 1
        leftMax, rightMax = height[l], height[r]

        while l < r:
            if leftMax < rightMax:
                l += 1
                leftMax = max(leftMax, height[l])
                res += leftMax - height[l]
            else:
                r -= 1
                rightMax = max(rightMax, height[r])
                res += rightMax - height[r]
        return res
```