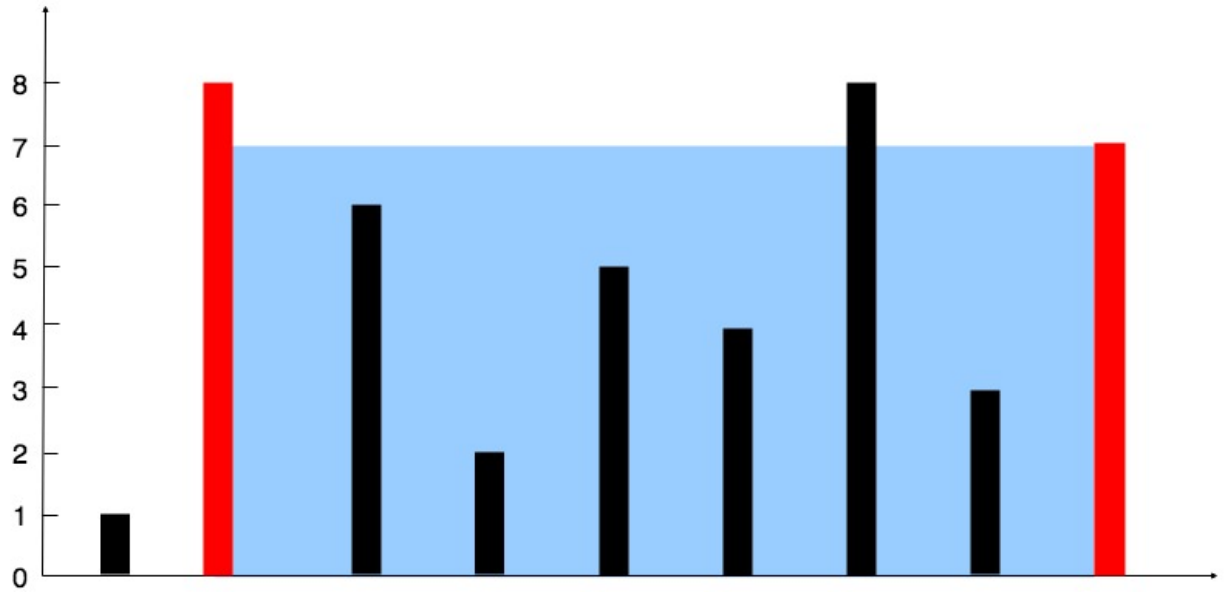
11. Container With Most Water

Medium 5103 533 Add to List Share

Given n non-negative integers a_1, a_2, ..., a_n , where each represents a point at coordinate (i, a_i). n vertical lines are drawn such that the two endpoints of line i is at (i, a_i) 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.



The above vertical lines are represented by array [1,8,6,2,5,4,8,3,7]. In this case, the max area of water (blue section) the container can contain is 49.

Example:

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Input: [1,8,6,2,5,4,8,3,7]
Output: 49
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