

11. Container With Most Water

Medium

6438

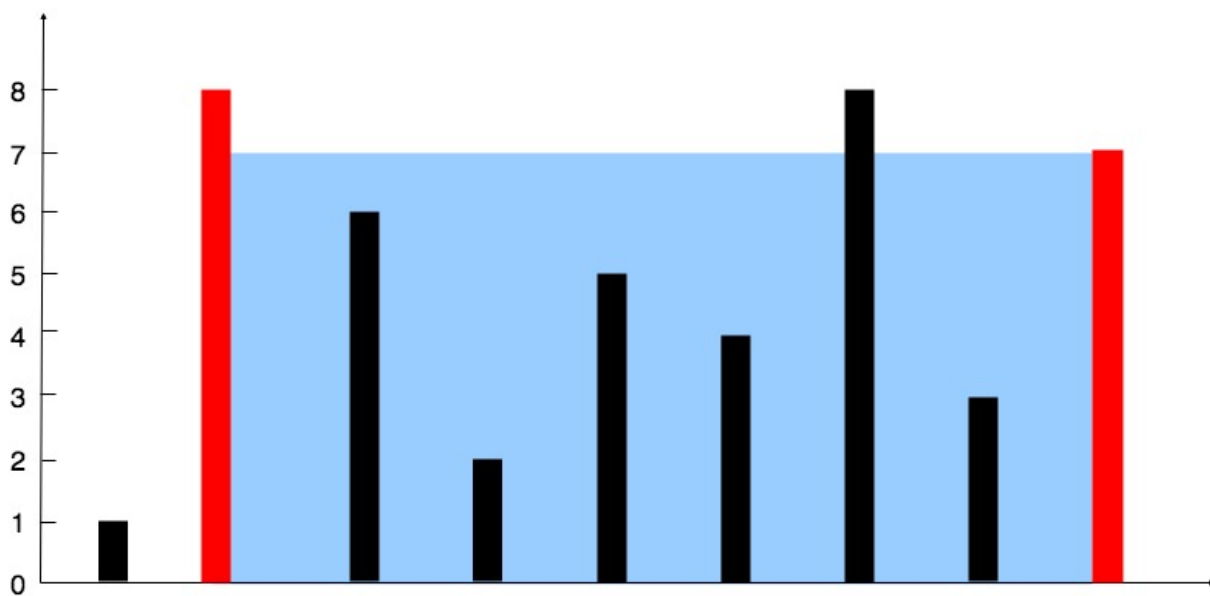
601

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Given n non-negative integers a_1, a_2, \dots, 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:

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

Output: 49