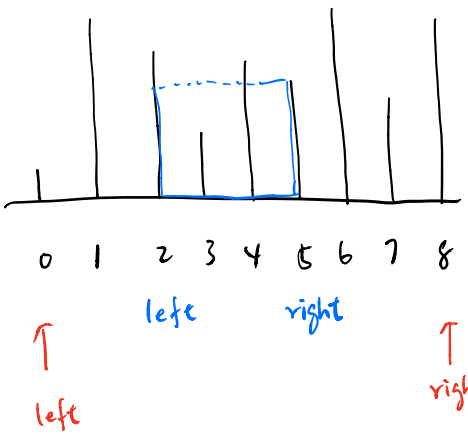
[1, 8, 6, 2, 5, 4, 8, 3, 7]



② ①

area = $\min(h_{left}, h_{right}) \cdot (right - left)$.

To maximize area, we need maximize ① and ②

① store from the greatest of right - left

② $\min(h_{left}, h_{right})$.

This part takes minimum of left and right.

So it only takes effect if we move smaller one.