

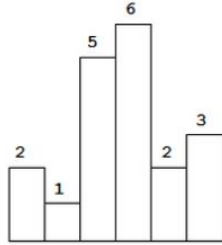
# Largest Rectangle in Histogram



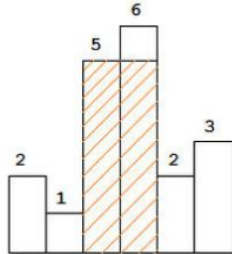
**Challenge name:** Largest Rectangle in Histogram

**Description:**

Given  $n$  non-negative integers representing the histogram's bar height where the width of each bar is 1, find the area of largest rectangle in the histogram.



Above is a histogram where width of each bar is 1, given height =  $[2, 1, 5, 6, 2, 3]$ .



For example, given height =  $[2, 1, 5, 6, 2, 3]$ , return 10.

After completing the challenge please submit it in this [form](#).