75 Days of Code

Day 56

Problem no: Leetcode 875

Problem Title : Koko Eating Bananas

Problem type : Binary Search

Koko loves to eat bananas. There are n piles of bananas, the ith pile has piles[i] bananas. The guards have gone and will come back in h hours.

Koko can decide her bananas-per-hour eating speed of k. Each hour, she chooses some pile of bananas and eats k bananas from that pile. If the pile has less than k bananas, she eats all of them instead and will not eat any more bananas during this hour.

Koko likes to eat slowly but still wants to finish eating all the bananas before the guards return.

Return the minimum integer k such that she can eat all the bananas within h hours.

Example 1:

Input: piles = [3,6,7,11], h = 8

Output: 4
Example 2:

Input: piles = [30,11,23,4,20], h = 5

Output: 30 Example 3:

Input: piles = [30,11,23,4,20], h = 6

Output: 23

Runtime Details

10776 ms

Beats 5.17% of users with TypeScript

Memory
45.49 MB
Beats 91.46% of users with TypeScript