

875. Koko Eating Bananas

Solved

Medium Topics Companies

Koko loves to eat bananas. There are n piles of bananas, the i^{th} 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:

Python3

```
1 class Solution:
2     def minEatingSpeed(self, piles: List[int], h: int) -> int:
3
4         def hourNeed(k):
5             res = 0
6             for p in piles:
7                 res += math.ceil(p / k)
8             return res
9
10        # binary search
11        l, r = 1, max(piles)
12        while l < r:
13            mid = l + (r - l) // 2
14            if hourNeed(mid) <= h:
15                r = mid
16            else:
17                l = mid + 1
18
19        return l
20
21
```

Accepted 126 / 126 testcases passed

AndrewC275 submitted at Jun 14, 2025 12:22

Editorial

Solution

Runtime

151 ms | Beats 77.95%

Analyze Complexity

Memory

18.94 MB | Beats 48.59%

