 Marwadi University	Marwadi University Faculty of Technology Department of Information and Communication Technology	
Sem : 4	Name : VEDANT BHARAD	
Day : 141	Date : 8/3/2023	Enrollment No: 92100133023


CP Club 365 Days Challenge

Programming language – C++

Problem Statement

<https://leetcode.com/problems/koko-eating-bananas/>

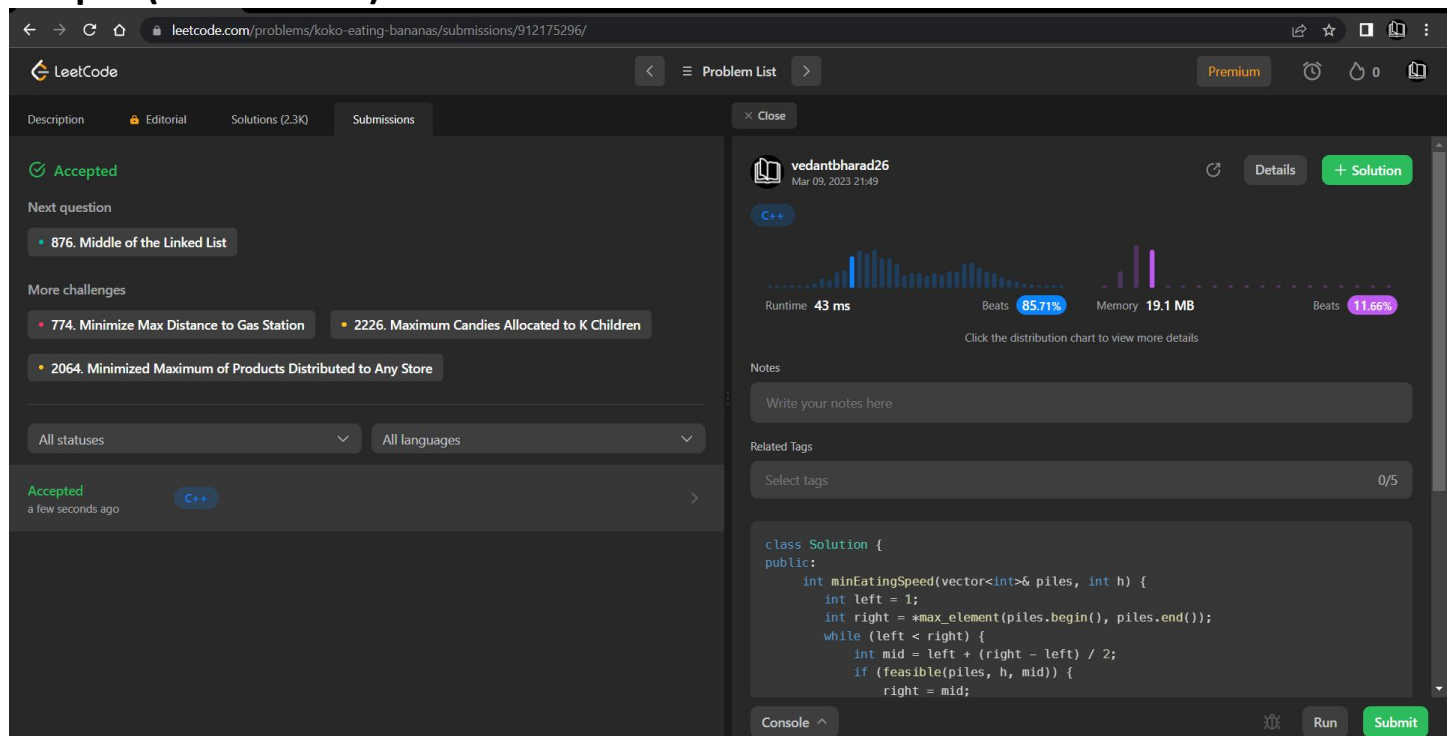
Git :- https://github.com/Vedantbharad2603/CP_club_365_Days

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Your Code:

```
class Solution {
public:
    int minEatingSpeed(vector<int>& piles, int h) {
        int left = 1;
        int right = *max_element(piles.begin(), piles.end());
        while (left < right) {
            int mid = left + (right - left) / 2;
            if (myfun(piles, h, mid)) {
                right = mid;
            } else {
                left = mid + 1;
            }
        }
        return left;
    }
    bool myfun(vector<int>& piles, int h, int speed) {
        int hour = 0;
        for (int p : piles) {
            hour += ceil((double)p / speed);
        }
        return hour <= h;
    }
};
```

Output (Screen Shot):




The screenshot shows a LeetCode submission page for the problem "Koko Eating Bananas" (Problem 876). The submission is for the C++ language and has been accepted. The user's name is vedantbharad26, and the submission was made on Mar 09, 2023, at 21:49.

Submission Details:

- Runtime: 43 ms
- Beats: 85.71%
- Memory: 19.1 MB
- Beats: 11.66%

The code is a C++ implementation of a binary search algorithm to find the minimum eating speed. It defines a class Solution with a public method minEatingSpeed. The method takes a vector of integers representing the number of bananas in each pile and an integer h representing the number of hours. It returns the minimum eating speed.

```
class Solution {
public:
    int minEatingSpeed(vector<int>& piles, int h) {
        int left = 1;
        int right = *max_element(piles.begin(), piles.end());
        while (left < right) {
            int mid = left + (right - left) / 2;
            if (feasible(piles, h, mid)) {
                right = mid;
            } else {
                left = mid + 1;
            }
        }
        return left;
    }
};
```

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Understanding about problem:

-> In this task I need to return a number which is the minimum integer k which is bananas-per-hour eating speed.

Note: If you can't understand the problem, feel free to contact us and we'll help you. Please don't copy and paste from anywhere.

ALL THE BEST

Team CP Club