Engineering Animuthyam

Java DSA – Course. Part - 56

Binary Search

Hello machas, Bagunnara

410. Split Array Largest Sum

https://leetcode.com/problems/split-array-largest-sum/description/

```java
class Solution {
    public boolean isPossible(int[] nums, int k,int mid){
        int temp = 0;
        for(int i = 0;i < nums.length; i++){
            int val = nums[i];
            if(val > mid){
                return false;
            }
            if(temp+ val > mid){
                k-=1;
                temp = 0;
            }
            temp+=val;
            if(k<=0){
             return false;
            }
        }
        return true;
    }
    public int splitArray(int[] nums, int k) {
        int l = 0;
        int r = (int)Math.pow(10,9);
        while(l<=r){
            int mid = l + (r - l)/2;
            if(isPossible(nums,k,mid)){
                r = mid - 1;
            }else{
                l = mid + 1;
            }
        }
        return l;
    }
}
```