

## 1870. Minimum Speed to Arrive on Time

Hint

Medium 1.6K 198

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You are given a floating-point number `hour`, representing the amount of time you have to reach the office. To commute to the office, you must take `n` trains in sequential order. You are also given an integer array `dist` of length `n`, where `dist[i]` describes the distance (in kilometers) of the `ith` train ride.

Each train can only depart at an integer hour, so you may need to wait in between each train ride.

- For example, if the 1<sup>st</sup> train ride takes 1.5 hours, you must wait for an additional 0.5 hours before you can depart on the 2<sup>nd</sup> train ride at the 2 hour mark.

Return the **minimum positive integer** speed (in kilometers per hour) that all the trains must travel at for you to reach the office on time, or -1 if it is impossible to be on time.

Tests are generated such that the answer will not exceed  $10^7$  and `hour` will have at most two digits after the decimal point.

### Example 1:

**Input:** `dist = [1,3,2], hour = 6`

**Output:** 1

**Explanation:** At speed 1:

- The first train ride takes  $1/1 = 1$  hour.
- Since we are already at an integer hour, we depart immediately at the 1 hour mark. The second train takes  $3/1 = 3$  hours.

i Java Auto

```
1 class Solution {
2     public int minSpeedOnTime(int[] dist, double hour) {
3
4         int length = dist.length;
5
6         int start = 1;
7         int end = (int)1e7;
8         int ans = -1;
9
10        while(start<=end){
11            int mid = start + (end-start)/2;
12            if(isPossible(dist, hour, mid, length)){
13                ans = mid;
14                end = mid-1;
15            }else{
16                start = mid+1;
17            }
18        }
19    }
20 }
```

Testcase Result

Accepted Runtime: 0 ms

Case 1 Case 2 Case 3

Input

dist =  
[1,3,2]

hour =  
6

Output

Console



Run

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## 1796. Second Largest Digit in a String

Hint

Easy 456 112

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Given an alphanumeric string `s`, return *the second largest numerical digit that appears in `s`*, or `-1` if it does not exist.

An **alphanumeric** string is a string consisting of lowercase English letters and digits.

### Example 1:

**Input:** `s = "dfa12321afd"`

**Output:** `2`

**Explanation:** The digits that appear in `s` are [1, 2, 3]. The second largest digit is 2.

### Example 2:

**Input:** `s = "abc1111"`

**Output:** `-1`

**Explanation:** The digits that appear in `s` are [1]. There is no second largest digit.

### Constraints:

- `1 <= s.length <= 500`
- `s` consists of only lowercase English letters and/or digits.

i Java Auto

```
1 class Solution {
2     public int secondHighest(String s) {
3         Set<Integer> set = new TreeSet<>(Collections.reverseOrder());
4
5         for(char c:s.toCharArray())
6             if(Character.isDigit(c))
7                 set.add(Integer.parseInt(String.valueOf(c)));
8
9         if(set.size() == 1)
10             return -1;
11
12         int i=1;
13         for(int j: set)
14             if(i++==2)
15                 return j;
16
17         return -1;
18     }
19 }
```

Testcase Result

Accepted Runtime: 0 ms

Case 1 Case 2

Input

`s =`  
`"dfa12321afd"`

Output

`2`

Console



Run

Submit