# Minimum Speed to Arrive on Time

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 $i^{th}$ 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 $1^{st}$ train ride takes 1.5 hours, you must wait for an additional 0.5 hours before you can depart on the $2^{nd}$ 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.

- Since we are already at an integer hour, we depart immediately at the 4 hour mark. The third train takes 2/1 = 2 hours.

- You will arrive at exactly the 6 hour mark.

**Example 2:**

**Input:** dist = [1,3,2], hour = 2.7

**Output:** 3

**Explanation:** At speed 3:

- The first train ride takes 1/3 = 0.33333 hours.

- Since we are not at an integer hour, we wait until the 1 hour mark to depart. The second train ride takes 3/3 = 1 hour.

- Since we are already at an integer hour, we depart immediately at the 2 hour mark. The third train takes 2/3 = 0.66667 hours.

- You will arrive at the 2.66667 hour mark.

**Example 3:**

**Input:** dist = [1,3,2], hour = 1.9

**Output:** -1

**Explanation:** It is impossible because the earliest the third train can depart is at the 2 hour mark.

**Constraints:**

- n == dist.length
- $1 <= n <= 10^5$
- $1 <= dist[i] <= 10^5$
- $1 <= hour <= 10^9$
- There will be at most two digits after the decimal point in hour.