Minimum Time Required ☆

Problem Submissions Leaderhoard Discussions Editorial A You are planning production for an order. You have a number of machines that each have a fixed number of days to produce an item. Given that all the machines operate simultaneously, determine the minimum number of days to produce the required order. For example, you have to produce goal = 10 items. You have three machines that take machines = [2, 3, 2] days to produce an item. The following is a schedule of items produced: Day Production Count 4 2 8 2 10 It takes **8** days to produce **10** items using these machines. **Function Description** Complete the minimumTime function in the editor below. It should return an integer representing the minimum number of days required to complete the order. minimumTime has the following parameter(s): • machines: an array of integers representing days to produce one item per machine • goal: an integer, the number of items required to complete the order The first line consist of two integers $m{n}$ and $m{goal}$, the size of $m{machines}$ and the target production. The next line contains n space-separated integers, machines[i]. Constraints • $1 \le n \le 10^5$ • $1 \leq goal \leq 10^9$ • $1 \leq machines[i] \leq 10^9$ **Output Format** Return the minimum time required to produce **goal** items considering all machines work simultaneously. Sample Input 0 2 5 Sample Output 0 Explanation 0 In $\bf 6$ days $\it machine_0$ can produce $\bf 3$ items and $\it machine_1$ can produce $\bf 2$ items. This totals up to $\bf 5$. Sample Input 1 3 10 1 3 4 Sample Output 1 In 7 minutes, $machine_0$ can produce 7 items, $machine_1$ can produce 2 items and $machine_2$ can produce 1 item, which totals up to 10. Sample Input 2 3 12 4 5 6 Sample Output 2 **Explanation 2**

In 20 days machine[0] can produce 5 items, machine[1] can produce 4, and machine[2] can produce 3.

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