

# 1335. Minimum Difficulty of a Job Schedule

## Description

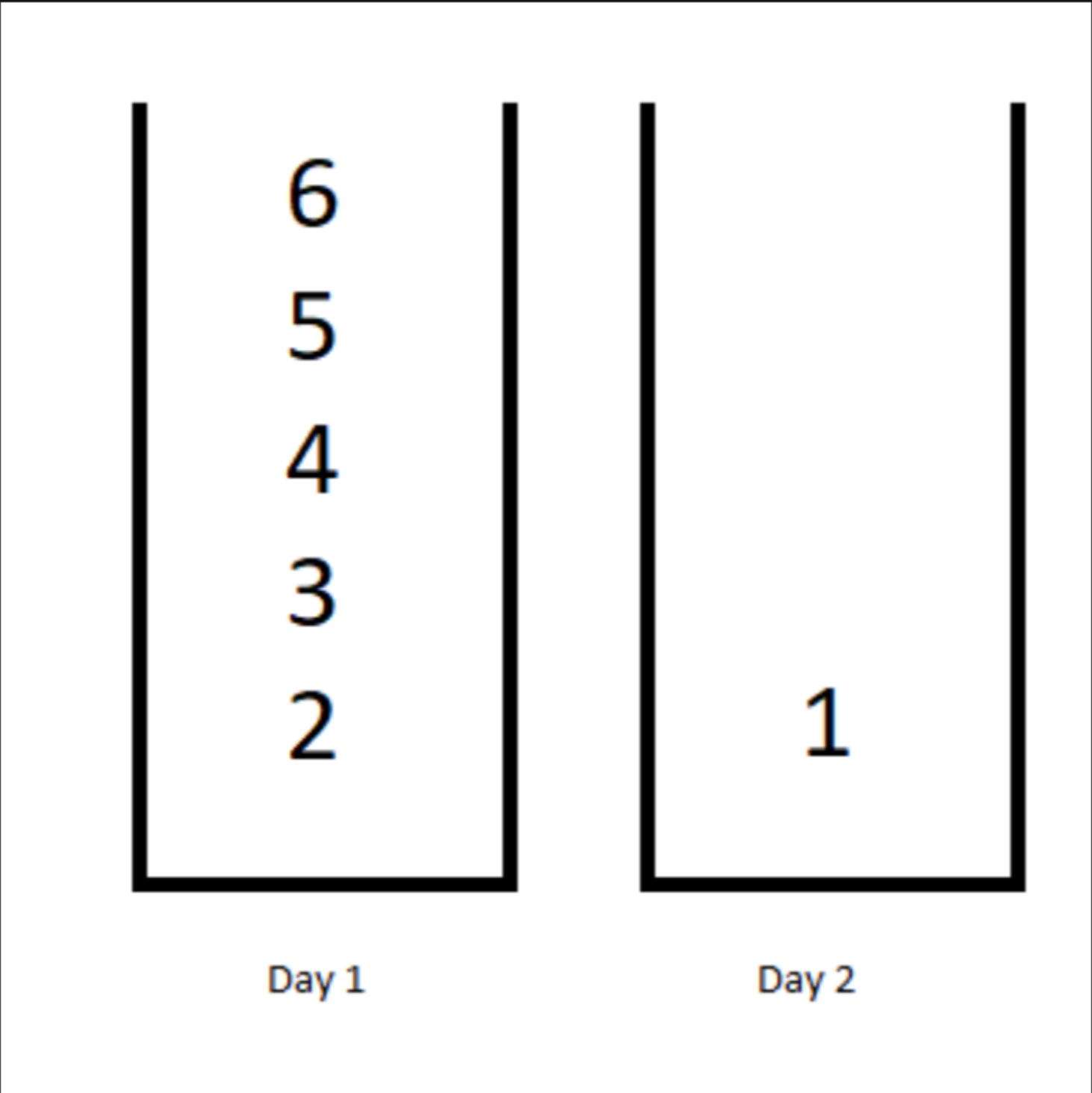
You want to schedule a list of jobs in `d` days. Jobs are dependent (i.e To work on the `ith` job, you have to finish all the jobs `j` where  $0 \leq j < i$  ).

You have to finish **at least** one task every day. The difficulty of a job schedule is the sum of difficulties of each day of the `d` days. The difficulty of a day is the maximum difficulty of a job done on that day.

You are given an integer array `jobDifficulty` and an integer `d` . The difficulty of the `ith` job is `jobDifficulty[i]` .

Return *the minimum difficulty of a job schedule* . If you cannot find a schedule for the jobs return `-1` .

### Example 1:



**Input:** `jobDifficulty = [6,5,4,3,2,1], d = 2`  
**Output:** `7`  
**Explanation:** First day you can finish the first 5 jobs, total difficulty = 6.  
Second day you can finish the last job, total difficulty = 1.  
The difficulty of the schedule = 6 + 1 = 7

### Example 2:

**Input:** `jobDifficulty = [9,9,9], d = 4`  
**Output:** `-1`  
**Explanation:** If you finish a job per day you will still have a free day. you cannot find a schedule for the given jobs.

### Example 3:

**Input:** `jobDifficulty = [1,1,1], d = 3`  
**Output:** `3`  
**Explanation:** The schedule is one job per day. total difficulty will be 3.

### Constraints:

- `1 <= jobDifficulty.length <= 300`
- `0 <= jobDifficulty[i] <= 1000`
- `1 <= d <= 10`

