**[Task Scheduler](https://leetcode.com/problems/task-scheduler/)**

You are given an array of CPU tasks, each represented by letters A to Z, and a cooling time, n. Each cycle or interval allows the completion of one task. Tasks can be completed in any order, but there's a constraint: **identical** tasks must be separated by at least n intervals due to cooling time.

​Return the *minimum number of intervals* required to complete all tasks.

**Example 1:**

**Input:** tasks = ["A","A","A","B","B","B"], n = 2

**Output:** 8

**Explanation:** A possible sequence is: A -> B -> idle -> A -> B -> idle -> A -> B.

After completing task A, you must wait two cycles before doing A again. The same applies to task B. In the 3rd interval, neither A nor B can be done, so you idle. By the 4th cycle, you can do A again as 2 intervals have passed.

**Example 2:**

**Input:** tasks = ["A","C","A","B","D","B"], n = 1

**Output:** 6

**Explanation:** A possible sequence is: A -> B -> C -> D -> A -> B.

With a cooling interval of 1, you can repeat a task after just one other task.

**Example 3:**

**Input:** tasks = ["A","A","A", "B","B","B"], n = 3

**Output:** 10

**Explanation:** A possible sequence is: A -> B -> idle -> idle -> A -> B -> idle -> idle -> A -> B.

There are only two types of tasks, A and B, which need to be separated by 3 intervals. This leads to idling twice between repetitions of these tasks.

**Constraints:**

* 1 <= tasks.length <= 104
* tasks[i] is an uppercase English letter.
* 0 <= n <= 100

class Solution {

public:

    int leastInterval(vector<char>& tasks, int n) {

        int freq[26] = {0};

        for(char task : tasks){

            freq[task - 'A']++;

        }

        sort(begin(freq) , end(freq));

        int chunk = freq[25] - 1;

        int idel = chunk \* n;

        for(int i=24; i>=0; i--){

            idel -= min(chunk,freq[i]);

        }

        return idel < 0 ? tasks.size() : tasks.size() + idel;

    }

};

Link : <https://leetcode.com/problems/task-scheduler/?envType=daily-question&envId=2024-03-19>