Error Log Extraction

Skills: Problem Solving (Basic) ⓘ

🕐 Recommended Time: 20 mins   🏆 Points: 50   ✓ 15 test cases (3 samples)

Coding   🏷 **EASY**   Real-World

Develop a function that processes a stream of log data from AWS CloudWatch, represented as a 2D array of strings called `logs`. Each inner list `logs` contains log information, including the year, date, status, and message.

The function should return all logs with ERROR or CRITICAL status sorted by their time of arrival and if two logs arrive at the same time return them in the order which appears first in `logs`. The log date is in DD-MM-YYYY format, and the log time is in HH:MM format.

Example

Suppose *logs* = [["01-01-2023", "14:00", "ERROR", "failed"], ["01-01-2023", "15:00", "INFO", "established"], ["01-01-2023", "01:30", "ERROR", "failed"]].

Log Index	Date	Time	Status	Message
1	01-01-2023	01:30	ERROR	failed
2	01-01-2023	14:00	ERROR	failed
3	01-01-2023	15:00	INFO	established

The answer is [["01-01-2023", "01:30", "ERROR", "failed"], ["01-01-2023", "14:00", "ERROR", "failed"]]. This is because the input contains two log entries with ERROR status, and they are sorted in ascending order of their time of arrival.