

Coding Assignment

Duration: 3 Hours

SET B

Instructions

- This assignment must be implemented using any preferred programming language.
- Use of Internet is allowed for referring to programming language related syntax and troubleshooting.
- Create readme file along with your code and attach screenshots of your output.
- Readme, code, and Output screenshots should be attached in ZIP file.

Problem Statements

You have been given a call log file of the telecommunication company which consist the From Number(10Digit) To Number(10Digit) and Call Duration (HH:MM: SS). Company recently launched the new plan stating that,

-If the Call Duration is below 1 min then there will be no cost. (Free)

-If the Call Duration is above 1 min then it will be charged at 30paise/min

Sample call log file is given. Every entry is a valid record. If there is a duplicate entry means person X is calling person Y for more than one times in a day. Below is the call log file for a day:

From Mobile, To Mobile, Call Duration

9898989898, 8989898989, 00:05:23
1898989898, 9989898989, 01:00:23
2898989898, 7989898989, 00:00:21
2898989898, 6989898989, 00:00:23
4898989898, 5989898989, 00:01:23
5898989898, 4989898989, 00:05:55
5898989898, 3989898989, 00:00:23
7898989898, 2989898989, 00:02:23
8898989898, 1189898989, 00:05:20
1098989898, 8459898989, 00:00:23
1898989898, 8967898989, 00:00:40
2898989898, 8989898989, 00:05:23

Based on the plan candidate must find the below things:

1. Find the distinct From Numbers for a day.
2. Find the distinct From Numbers who used the Free Plan. (Call Duration less than 1 min)
3. Find the total call duration with respect to From Number
4. Find the total income for a day. (Cost to be considered for Call Duration greater 1 min)