

Stream: Python

Tech Module: IO Operations

Project: 1

Your friend has sent you a text file containing n lines. He sent a secret message with it, which tells you the place and time where you have to go and meet him.

He challenges you to find it out without seeing the content of the file. He has given hints to find it. Let's surprise him by breaking the challenge with our python code.

Hints to find the secret message:

1. The number of lines in the file tells you the meeting time.

Note: $1 \leq \text{number of lines} \leq 24$

If the number of lines is exceeding 12, you need to convert it to 12 hour format. For example,

- If the number of lines is 15, then the meeting time is 3 PM.
- If the number of lines is 10, then the meeting time is 10 AM.

2. The word appearing for the maximum number of times tells you the meeting place.

Note: Meeting place will be a street name.

For example,

- If the word **Oxford** appears for the maximum number of times, then meeting place is **Oxford Street**.
- If the word **Park** appears for the maximum number of times, then meeting place is **Park Street**.

Sample input 1:

Sample.txt

Cricket, a bat-and-ball **park** game played between two teams of eleven **park** players on a field at the **park** center of which is a 20-metre (22-yard) pitch with a wicket at each end, each **park** comprising two bails balanced on three stumps. The batting **park** scores runs by striking the ball bowled at the **park** wicket with the **park** bat, while the bowling and **park** fielding side tries to prevent this and dismiss each **park** player (so they are "out"). Means of **park** include being bowled, when the ball hits the **park** and dislodges the bails, and by the fielding side **park** the ball after it is hit by the bat, but before it hits the **park**. When ten **park** have been dismissed, the innings ends and the teams **park** roles.

Sample output 1:

Meeting time: 9 AM

Meeting place: Park Street

Explanation: Number of lines is 9. The word park appears for the maximum of 15 times.

Sample input 2:

Sample.txt

Royal Enfield is an Indian **Apollo** motorcycle manufacturing brand with tag of "oldest **Apollo** motorcycle brand in continuous production" manufactured **Apollo** factories Chennai **Apollo** India. Licensed from Royal Enfield by indigenous Indian Madras Motors, it is now a **Apollo** subsidiary Eicher Motors Limited, an Indian **Apollo** automaker. The company makes **Apollo** Royal Enfield Bullet, and other single-cylinder and twin-cylinder **Apollo** motorcycles. First produced

Apollo in 1901, Royal Enfield is oldest motorcycle **Apollo** brand world still production, with Bullet model enjoying longest motorcycle **Apollo** production run of all time. In 1990, Royal Enfield collaborated with Eicher **Apollo** Group, an automotive company **Apollo** India, and merged with it 1994. Apart from bikes, Eicher **Apollo** Group is involved in the production and sales **Apollo** commercial vehicles and automotive gears. Although **Apollo** Royal Enfield experienced difficulties 1990s, and ceased **Apollo** motorcycle production at their Jaipur factory 2002, by 2013 **Apollo** company opened a new primary **Apollo** factory **Apollo** Chennai suburb of Oragadam on strength of increased demand for its **Apollo** motorcycles. This was followed in **Apollo** 2017 by inauguration another new factory of a similar size to facility at **Apollo** Oragadam (capacity 600,000 vehicles per year) at Vallam **Apollo** Vagadal. The original factory at **Apollo** Tiruvottiyur became secondary, and continues to produce some limited-run motorcycle models.

Sample output 2:

Meeting time: 8 PM

Meeting place: Apollo Street

Explanation: Number of lines is 20 and converting it to 12 hour format we get 8 PM. The word Apollo appears for the maximum of 25 times.