

Program for Files

Program Statement:

Read a file (name passed in as 1st argument to program). Each line of the file has a category, a space, and a sub-category (sub-category can have whitespace within it). Want to:

- Only process the pair (category, sub-category) once
- If a pair appears twice, ignore the second one
- Keep track of the order of the first occurrence of each pair
- Keep track of the count for each category
- Legal category values are: PERSON PLACE ANIMAL COMPUTER OTHER
- Illegal category values should be ignored
- Output is:

CATEGORY COUNT

PERSON

PLACE

ANIMAL

COMPUTER

OTHER

Ordered list of input

-- Category output should be in the order shown

-- If there are no items in the file for a specified category, it should be shown with a count of 0

Please follow good software engineering practices. In addition to a working program, unit tests should be produced.

Example:

Input file:

| | |
|----------|------------|
| PERSON | Bob Jones |
| PLACE | Washington |
| PERSON | Mary |
| COMPUTER | Mac |
| PERSON | Bob Jones |

| | |
|--------|-------|
| OTHER | Tree |
| ANIMAL | Dog |
| PLACE | Texas |
| FOOD | Steak |
| ANIMAL | Cat |

Output:

| CATEGORY | COUNT |
|----------|------------|
| PERSON | 2 |
| PLACE | 2 |
| ANIMAL | 2 |
| COMPUTER | 1 |
| OTHER | 1 |
| PERSON | Bob Jones |
| PLACE | Washington |
| PERSON | Mary |
| COMPUTER | Mac |
| OTHER | Tree |
| ANIMAL | Dog |
| PLACE | Texas |
| ANIMAL | Cat |

System Requirements: (Used to developed the program)

| | |
|-------------------|------------------------|
| Operating Systems | Windows 8.1 (64 – bit) |
| Ram | 4 GB |
| HDD | 500 GB |

How to run the program:

Pass a file named "File.txt".(pass this as argument while executing the code)

example: `java Section File.txt`

Output of Program as follows:

```
CA Command Prompt
C:\Users\deepthisha>cd desktop
C:\Users\deepthisha\Desktop>java Sections File.txt
CATEGORY          COUNT
PERSON             2
PLACE              2
ANIMAL             2
COMPUTER           1
OTHER              1

Information Present in the file:
PERSON Bob Jones
PLACE Washington
PERSON Mary
COMPUTER Mac
OTHER Tree
ANIMAL Dog
PLACE Texas
ANIMAL Cat

C:\Users\deepthisha\Desktop>
```