

The goal of this assignment is to **force** you to learn Ruby quickly. In this assignment, your program will read an input file in comma-separated value (CSV) format and print a report based on the data in that file. CSV format files consist of one record per line, with each record consisting of one or more comma-separated fields.

Write a Ruby program named **widgets.rb**, which can be run by typing **ruby widgets.rb** on a Linux system such as your Cloud9 system. The program will read a CSV-format input file named **widgets.csv**. Each record contains data about an employee, including the state code, plant (factory) code, department code, employee ID number, **employee** name, and a count of the widgets that the employee made. The data will look like **this**:

```
STATE,PLANT,DEPT,EMPID,NAME,COUNT
12,34,56,789,George Carter,4
12,34,56,799,Mary Clinton,6
12,34,57,639,Alfred Lincoln,8
12,40,57,710,Kim Kennedy,8
12,40,57,990,Jina Johnson,6
12,40,75,426,Ruby Roosevelt,10
12,40,75,551,John Washington,7
33,22,11,297,Hilda Hoover,10
33,22,11,428,Ted Truman,11
33,22,11,808,Nora Nixon,3
33,22,14,629,Mabel Bush,9
33,27,19,321,Chris Adams,5
```

The **input** data for this assignment will be a simple CSV file, so you do not have to worry about quoted values or any special cases, like names that contain a comma as part of the name.

The output of your program must look like the following. Be careful to follow the output format shown, including spacing and column alignment.

STATE	PLANT	DEPT	EMPID	COUNT	NAME
12	34	56	789	4	George Carter
12	34	56	799	6	Mary Clinton
			10	TOTAL FOR DEPT	56 *
12	34	57	639	8	Alfred Lincoln
			8	TOTAL FOR DEPT	57 *
			18	TOTAL FOR PLANT	34 **
12	40	57	710	8	Kim Kennedy
12	40	57	990	6	Jina Johnson
			14	TOTAL FOR DEPT	57 *
12	40	75	426	10	Ruby Roosevelt
12	40	75	551	7	John Washington
			17	TOTAL FOR DEPT	75 *
			31	TOTAL FOR PLANT	40 **
			49	TOTAL FOR STATE	12 ***
33	22	11	297	10	Hilda Hoover
33	22	11	428	11	Ted Truman
33	22	11	808	3	Nora Nixon
			24	TOTAL FOR DEPT	11 *
33	22	14	629	9	Mabel Bush
			9	TOTAL FOR DEPT	14 *
			33	TOTAL FOR PLANT	22 **
33	27	19	321	5	Chris Adams
			5	TOTAL FOR DEPT	19 *
			5	TOTAL FOR PLANT	27 **
			38	TOTAL FOR STATE	33 ***
			87	GRAND TOTAL	*****

The input file `widgets.csv` file is included in the Blackboard drop box .

Deliverables

For this assignment, we will use our GitHub accounts and submit the URL as our formal submission to the Blackboard dropbox. Create two files in your GitHub repository:

- **widgets.rb**, your ruby source file.
- **widgets.out**, the plain-text output of your program when run with the provided `widgets.csv` file as input