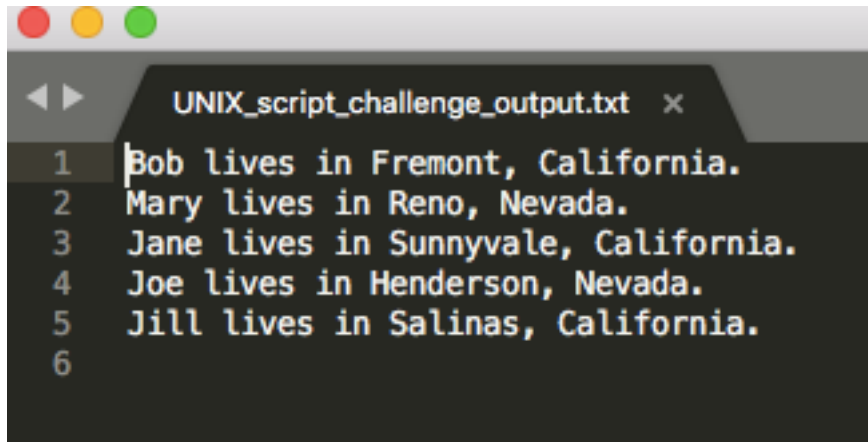


```
#!/bin/ksh
#####
# Written by Xiaofang Yu      Nov. 24, 2017
# Purpose: This script is for CSC505 Weekend3_KSHChallenge assignment
#####

# 1) Use SED and extract all lines that match the string "lives in".

# Joe lives in Reno, Nevada.
# Mary lives in Fremont, California.
# ...

sed -n '/lives in/p' UNIX_script_challenge_input.txt > UNIX_script_challenge_output.txt
```

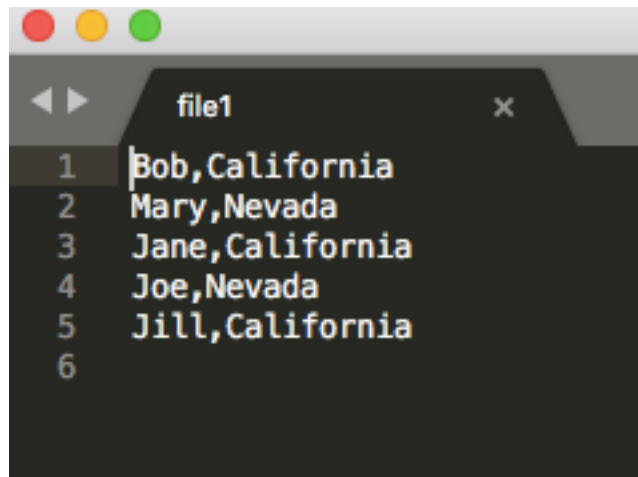


```
UNIX_script_challenge_output.txt x
1 Bob lives in Fremont, California.
2 Mary lives in Reno, Nevada.
3 Jane lives in Sunnyvale, California.
4 Joe lives in Henderson, Nevada.
5 Jill lives in Salinas, California.
6
```

2) Use cut/paste (unix commands) to convert the above to:

```
# Joe,Nevada  
# Mary,California  
# ...
```

```
paste -d ',' <(cut -f 1 -d ' ' UNIX_script_challenge_output.txt) <(cut -f 5 -d ' ' UNIX_script_challenge_output.txt) | cut -f 1 -d '.' > file1
```



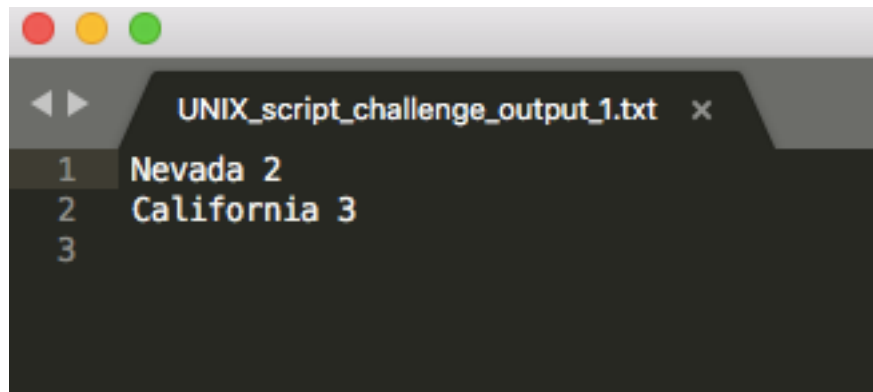
A screenshot of a terminal window with a dark background. The window title bar shows three colored buttons (red, yellow, green) on the left and a close button (X) on the right. The terminal content shows a list of names and states, each preceded by a line number from 1 to 6. The text is as follows:

```
1 Bob,California  
2 Mary,Nevada  
3 Jane,California  
4 Joe,Nevada  
5 Jill,California  
6
```

3) Use AWK /associative array to create a report as follows:

```
# Nevada 1  
# California 1  
# ...
```

```
cut -f 2 -d ',' file1 | sort -r | awk '{if ($1!=prev && NR>1) {print($1, NR);prev=$1;}}' >  
UNIX_script_challenge_output_1.txt
```



```
1 Nevada 2  
2 California 3  
3
```