wc -w words  2. 4093 words start with 'a' grep ^a words   wc -w  3. 1244 words end with 'z' grep z words   wc -w  4. Copied file in reverse tac words > words2  5. 201 words grep -v -c [aeiou] words  6. Length of shortest word: 1 awk '{print length(\$1)}' words   sort -nk 1   head -1  7. Length of longest word: 28 awk '{print length(\$1)}' words   sort -nk1 -r   head -1  8. 7217 words with only 4 or 5 letters awk 'length(\$1)==4    length(\$1)==5' words   wc -w  9. 40765 Bytes awk 'length(\$1)==4    length(\$1)==5' words   wc -c  10. 50 processes in processes.txt pgrep emacs   wc -l processes.txt  11. 3 processes not in root grep -v root processes.txt -c  12. 164 is the process id of ssh daemon grep ssh processes.txt   awk '{print\$2}'  13. 1 is the parent process id grep ssh processes.txt   awk '{print \$3}'  14. 3 interactive logins awk '{print \$1}' processes.txt   sort   uniq   wc -w	1.	52875 words in words file
grep ^a words   wc -w  3.		wc -w words
3.	2.	4093 words start with 'a'
grep z words   wc -w  4. Copied file in reverse		grep ^a words   wc -w
4. Copied file in reverse  tac words > words2  5. 201 words  grep -v -c [aeiou] words  6. Length of shortest word: 1     awk '{print length(\$1)}' words   sort -nk 1   head -1  7. Length of longest word: 28     awk '{print length(\$1)}' words   sort -nk1 -r   head -1  8. 7217 words with only 4 or 5 letters     awk 'length(\$1)==4    length(\$1)==5' words   wc -w  9. 40765 Bytes  awk 'length(\$1)==4    length(\$1)==5' words   wc -c  10. 50 processes in processes.txt     pgrep emacs   wc -l processes.txt  11. 3 processes not in root  grep -v root processes.txt - c  12. 164 is the process id of ssh daemon     grep ssh processes.txt   awk {'print\$2}'  13. 1 is the parent process id     grep ssh processes.txt   awk '{print \$3}'  14. 3 interactive logins	3.	1244 words end with 'z'
5. 201 words  grep -v -c [aeiou] words  6. Length of shortest word: 1  awk '{print length(\$1)}' words   sort -nk 1   head -1  7. Length of longest word: 28  awk '{print length(\$1)}' words   sort -nk1 -r   head -1  8. 7217 words with only 4 or 5 letters  awk 'length(\$1)==4    length(\$1)==5' words   wc -w  9. 40765 Bytes  awk 'length(\$1)==4    length(\$1)==5' words   wc -c  10. 50 processes in processes.txt  pgrep emacs   wc -l processes.txt  11. 3 processes not in root  grep -v root processes.txt -c  12. 164 is the process id of ssh daemon  grep ssh processes.txt   awk {'print\$2}'  13. 1 is the parent process id  grep ssh processes.txt   awk '{print \$3}'  14. 3 interactive logins		
5. 201 words  grep -v -c [aeiou] words  6. Length of shortest word: 1  awk '{print length(\$1)}' words   sort -nk 1   head -1  7. Length of longest word: 28  awk '{print length(\$1)}' words   sort -nk1 -r   head -1  8. 7217 words with only 4 or 5 letters  awk 'length(\$1)==4     length(\$1)==5' words   wc -w  9. 40765 Bytes  awk 'length(\$1)==4     length(\$1)==5' words   wc -c  10. 50 processes in processes.txt  pgrep emacs   wc -l processes.txt  11. 3 processes not in root  grep -v root processes.txt -c  12. 164 is the process id of ssh daemon  grep ssh processes.txt   awk {'print\$2}'  13. 1 is the parent process id  grep ssh processes.txt   awk '{print \$3}'  14. 3 interactive logins	4.	·
grep -v -c [aeiou] words  6. Length of shortest word: 1		
6. Length of shortest word: 1	5.	
awk '{print length(\$1)}' words   sort -nk 1   head -1  7. Length of longest word: 28		
7. Length of longest word: 28	6.	
awk '{print length(\$1)}' words   sort -nk1 -r   head -1  8. 7217 words with only 4 or 5 letters		
8. 7217 words with only 4 or 5 letters  awk 'length(\$1)==4    length(\$1)==5' words   wc -w  9. 40765 Bytes  awk 'length(\$1)==4    length(\$1)==5' words   wc -c  10. 50 processes in processes.txt  pgrep emacs   wc -l processes.txt  11. 3 processes not in root  grep -v root processes.txt -c  12. 164 is the process id of ssh daemon  grep ssh processes.txt   awk {'print\$2}'  13. 1 is the parent process id  grep ssh processes.txt   awk '{print \$3}'  14. 3 interactive logins	7.	
awk 'length(\$1)==4    length(\$1)==5' words   wc -w  9. 40765 Bytes  awk 'length(\$1)==4    length(\$1)==5' words   wc -c  10. 50 processes in processes.txt  pgrep emacs   wc -l processes.txt  11. 3 processes not in root  grep -v root processes.txt -c  12. 164 is the process id of ssh daemon  grep ssh processes.txt   awk {'print\$2}'  13. 1 is the parent process id  grep ssh processes.txt   awk '{print \$3}'  14. 3 interactive logins		
9. 40765 Bytes  awk 'length(\$1)==4    length(\$1)==5' words   wc -c  10. 50 processes in processes.txt  pgrep emacs   wc -l processes.txt  11. 3 processes not in root  grep -v root processes.txt -c  12. 164 is the process id of ssh daemon  grep ssh processes.txt   awk {'print\$2}'  13. 1 is the parent process id  grep ssh processes.txt   awk '{print \$3}'  14. 3 interactive logins	8.	
awk 'length(\$1)==4    length(\$1)==5' words   wc -c  10. 50 processes in processes.txt  pgrep emacs   wc -l processes.txt  11. 3 processes not in root  grep -v root processes.txt -c  12. 164 is the process id of ssh daemon  grep ssh processes.txt   awk {'print\$2}'  13. 1 is the parent process id  grep ssh processes.txt   awk '{print \$3}'  14. 3 interactive logins		
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11. 3 processes not in root  grep -v root processes.txt -c  12. 164 is the process id of ssh daemon  grep ssh processes.txt   awk {'print\$2}'  13. 1 is the parent process id  grep ssh processes.txt   awk '{print \$3}'  14. 3 interactive logins	10.	·
grep -v root processes.txt -c  12. 164 is the process id of ssh daemon grep ssh processes.txt   awk {'print\$2}'  13. 1 is the parent process id grep ssh processes.txt   awk '{print \$3}'  14. 3 interactive logins	11	
12. 164 is the process id of ssh daemon grep ssh processes.txt   awk {'print\$2}'  13. 1 is the parent process id grep ssh processes.txt   awk '{print \$3}'  14. 3 interactive logins	11.	•
grep ssh processes.txt   awk {'print\$2}'  13.	12	÷ · · ·
13. 1 is the parent process id  grep ssh processes.txt   awk '{print \$3}'  14. 3 interactive logins	12.	•
grep ssh processes.txt   awk '{print \$3}'  14. 3 interactive logins	13.	
14. 3 interactive logins		· · ·
	14.	
15. 563 total	15.	
cat processes.txt   awk '{total = total + \$3} END {print total}'		cat processes.txt   awk '{total = total + \$3} END {print total}'