Q l: How do you find all '.log' files in the '/var/log' directory that were modified more than 15 days ago, but exclude those files that are larger than 500MB?

find var/log -name"\* .log" -mtime +15 ! size +500M

Q2: How can you search for all symbolic links in a directory and delete them using a single 'find' command?

Find var/dorectory -type I -delete

Q3: Using 'find', how do you locate files in the '/home/user' directory that are owned by a user other than the current owner?

find home/user ! -user $(whoami)

Q4: How can you find all files in the '/etc' directory that contain the word "config" in their name and have write permission for others?

find /etc -name "config" -perm -o=w

Q5: How can you search for all lines in a file '/etc/passwd' that do not contain the word "bash"?

grep -v "bash" /etc/passwd

Q6: How do you search recursively through all files in a directory for a specific string, showing only the matching filenames and excluding binary files?

grep -rl--exclude-binary '\*' "Search\_string" /path/to/directory

Q7: How can you search for the word "error" in a file, displaying the surrounding 3 lines before and after each match?

grep -C 3 "error" filename

Q8: Using'grep', how would you find all occurrences of the word "root" in '/etc/passwd' that start at the beginning of a line?

grep "Aroot" error.log

Q9: How can you create a compressed archive of the '/home/user' directory, excluding all '.mp4' files?

tar --exclude='\*.mp4' -czvf archive.tar.gz /home/user

QlO: How would you extract only a specific file 'file.txf from a '.tar.gz' archive without extracting the entire archive?

tar-xzf archive.tar.gz file.txt

Qll: How can you append a file called 'newfile.txf to an existing 'archive.tar.gz' without decompressing the archive?

gunzip archive.tar.gz

tar -rvf archive.tar newfile.txt

gzip archive.tar

Q12: How would you list the contents of a '.tar.gz' archive without extracting it? tar-tzf archive.tar.gz

Q13: How can you list all currently running processes and then filter for processes that include the word "java", showing only the process ID and name?

ps aux I grep "java"

Q14: How can you display a list of all files in '/var/log', then filter for files containing the word "error" using both 'Is' and 'grep' in a pipeline?

Is /var/log I grep "error"

Q15: How do you count the number of lines in a file that contain the word "failed" using 'grep' and 'we'?

grep "failed" filename I we -I

Q16: How can you display the last 20 lines of a log file and filter the lines that contain the word "critical" using a combination of 'tail' and 'grep'?

tail -n 20 logfile.log I grep "critical"

Q17: How do you display the disk usage of all files and directories in '/home/user' in human­ readable format, sorted by size in descending order?

du -h /home/user I sort -hr

Q18: How can you display the total disk usage of the '/var' directory but exclude the subdirectory '/var/log'?

du -sh /var --exclude=/var/log

Q19: How can you use 'du' to find the disk usage of files larger than 100MBin a directory?

find /path/to/directory -type f -size +100M -exec du -h {} +

Q20: How do you display the disk usage of the 10 largest directories in the '/usr' directory using 'du'?

du -h /home/user I sort -hr I head -n 10