

Answers

1. 18
2. `grep -ri 'DEBUG|ERROR|INFO' /`
3. `echo "Ab1Cd2Ef3Gh4Ij5Kl6Mn7Op8Qr9St10Uv11Wx12Yz13" | sed -E 's/([A-Z])([a-z])[0-9]+\L\1\2-/g' | sed 's/-$/'`
4. Code:
`#!/bin/bash`

```
set -e
check_braces() {
    local input="$1"
    local balance=0

    for (( i=0; i<${#input}; i++ )); do
        char="${input:$i:1}"
        if [[ "$char" == "{" ]]; then
            ((balance++))
        elif [[ "$char" == "}" ]]; then
            ((balance--))
        fi

        if (( balance < 0 )); then
            echo "false"
            return
        fi
    done

    if (( balance == 0 )); then
        echo "true"
    else
        echo "false"
    fi
}

read -p "Enter a string with braces: " user_input

check_braces "$user_input"
```

5.

Step 1: Install docker on the local machine

Step 2: Create a **Dockerfile** with the smallest image possible to containerize it you can find the image and size and version on the official docker website.

Step 3: Build the docker file using the command

docker build

Step 4: We can test the docker file by running the command `docker run` followed by the port number exposed in the Docker file and with our docker hub username followed by the repository name and the tag name

docker run -p 8080:8080 guru/tagname .

Step 5: We can directly login to our docker hub from the terminal using the command

docker login

Step 6: Now we have to push our created docker Image to our docker hub using the command

docker push guru/test:tagname

Step 7: We can login to our docker hub account and check that the created image is pushed successfully

6. server {

listen 80 default_server;

root /var/www/html;

server_name *.senpiper.com senpiper.com;

location /api {

proxy_pass http://localhost:8000/welcome/home;

}

}