## Step 1:

```
Q ≡
                             lyndlee@lyndlee-VirtualBox: ~
lyndlee@lyndlee-VirtualBox:~S sudo useradd user1
lyndlee@lyndlee-VirtualBox:~$ sudo passwd user1
Thunderbird Mail The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
lyndlee@lyndlee-VirtualBox:~$ sudo useradd user2
lyndlee@lyndlee-VirtualBox:~$ sudo passwd user2
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
lyndlee@lyndlee-VirtualBox:~$ sudo useradd user3
lyndlee@lyndlee-VirtualBox:~$ sudo passwd user3
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
lyndlee@lyndlee-VirtualBox:~$ sudo useradd user4
lyndlee@lyndlee-VirtualBox:~$ sudo passwd user4
New password:
Retype new password:
passwd: password updated successfully
lyndlee@lyndlee-VirtualBox:~$
```

Create 6 users in your Linux Terminal, then set the password for each user that meets the following complexity requirement respectively. You should list the passwords created for each user.

```
Q
                                lyndlee@lyndlee-VirtualBox: ~
Firefox Web Browser
passwd: password updated successfully
lyndlee@lyndlee-VirtualBox:~$ sudo useradd user4
lyndlee@lyndlee-VirtualBox:~$ sudo passwd user4
New password:
Retype new password:
passwd: password updated successfully
lyndlee@lyndlee-VirtualBox:~$ sudo useradd user5
lyndlee@lyndlee-VirtualBox:~$ sudo passwd user5
New password:
BAD PASSWORD: The password fails the dictionary check - it is based on a diction
ary word
Retype new password:
passwd: password updated successfully
lyndlee@lyndlee-VirtualBox:~$ sudo useradd user6
lyndlee@lyndlee-VirtualBox:~$ suod passwd user6
Command 'suod' not found, did you mean:
command 'sudo' from deb sudo (1.9.9-1ubuntu2.4)
command 'sudo' from deb sudo-ldap (1.9.9-1ubuntu2.4)
Try: sudo apt install <deb name>
lyndlee@lyndlee-VirtualBox:~$ sudo passwd user6
New password:
Retype new password:
passwd: password updated successfully
lyndlee@lyndlee-VirtualBox:~$
```

```
lyndlee@lyndlee-VirtualBox:~$ sudo tail /etc/shadow
[sudo] password for lyndlee:
Files :*:19576:0:99999:7:::
    *:19576:0:99999:7:::
lyndlee:$y$j9T$aQHK7nwBuLPRR/a4VGHpq1$DxMrjUAQt9c4QRstUbLCsPHWUzN4WE4C5kpIj87Zc3
9:19650:0:99999:7:::
vboxadd:!:19650:::::
user1:$y$j9T$1l7HajLSqXyKxjbwOMLcZ/$q2V4ZTlypVumXdky5iYABYlB9zqGGT8NjZD24lcOc.0:
19669:0:99999:7:::
user2:$y$j9T$W/jMe9GqmsrLo/rgIVBBg0$15gFFNGmoHB812dRZ4JU3MW7IKkIrEIs9vyXqFkZ8nA:
19669:0:99999:7:::
user3:$y$j9T$JvPl1r8LSDbzWSnzTZPE./$OSTp8wC2vDOmWPcdDVJzSYnP7Pjb12oxf2XR95CIE53:
19669:0:99999:7:::
user4:$y$j9T$jAAdOFhj9kWe04TUxDACO0$5lY4Ms7ynBdkDwwsCCTdRqNwsHtwi.gxEg75JTex00D:
19669:0:99999:7:::
user5:$y$j9T$HDIFfpRtAYx4Un0pY8fv10$xGbzFm6P4wD9i0HVBIhBLd8rFGJqy0GC1x3F8jnPla/:
19669:0:99999:7:::
user6:$y$j9T$wwiUkj9uPG/MXpVuU1XmN/$eKtnX80m53a4lN9JY4jM40s6uPOI8s32cE24lC8UqE/:
19669:0:99999:7:::
lyndlee@lyndlee-VirtualBox:~$
```

```
lyndlee@lyndlee-VirtualBox: ~
  Ħ
                                                            Q
lyndlee@lyndlee-VirtualBox:~$ suod passwd user6
Command 'suod' not found, did you mean:
  command 'sudo' from deb sudo (1.9.9-1ubuntu2.4)
  command 'sudo' from deb sudo-ldap (1.9.9-1ubuntu2.4)
Try: sudo apt install <deb name>
lyndlee@lyndlee-VirtualBox:~$ sudo passwd user6
Files assword:
   pe new password:
passwd: password updated successfully
lyndlee@lyndlee-VirtualBox:~$ sudo grep user1 /etc/shadow > 01100438.hash
lyndlee@lyndlee-VirtualBox:~$ sudo grep user2 /etc/shadow > 01100438.hash
lyndlee@lyndlee-VirtualBox:~$ sudo grep user3 /etc/shadow > 01100438.hash
lyndlee@lyndlee-VirtualBox:~$ sudo grep user4 /etc/shadow > 01100438.hash
lyndlee@lyndlee-VirtualBox:~$ sudo grep user5 /etc/shadow > 01100438.hash
lyndlee@lyndlee-VirtualBox:~$ sudo grep user6 /etc/shadow > 01100436.hash
lyndlee@lyndlee-VirtualBox:~$ sudo john --wordlist=rockyou.txt 01100438.hash
Created directory: /root/snap/john-the-ripper/610/.john
Created directory: /root/snap/john-the-ripper/610/.john/opencl
stat: 01100438.hash: Permission denied
lyndlee@lyndlee-VirtualBox:~$ john --show 01100438.hash
0 password hashes cracked, 1 left
```

Export above users' hashes into a file named xxx.hash (replace xxx with your MIDAS) and use John the Ripper tool to crack their passwords in wordlist mode (use rockyou.txt).

Keep your john the ripper cracking for 10 minutes. How many passwords have been successfully cracked?