

# Administration of Operating Systems

## DO2003

April 28th 2010

1500-1900

IDE, Halmstad University

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Grade: Part 1, 75% => 3  
Part 2, 75% => 4  
Part 3, G => 5

To get grade 4 you must have passed grade 3,  
to get grade 5 you must have passed grade 3 and 4.

### **Tools allowed:**

Pencil and eraser.

Other tools according to central regulations.

**Important! Read the instructions on next page before you start!**

# Example:

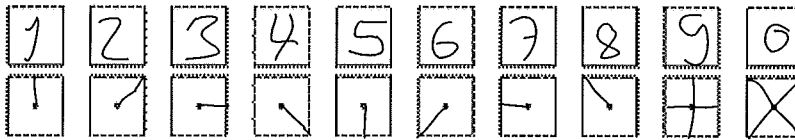
Your ID is 123456-7890

1. Select the number 2.

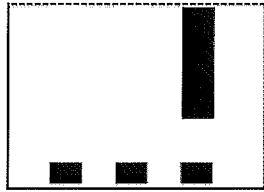
- A. 0
- B. 1
- C. 2
- D. 3

2. Rank the following 1-4 in increasing order of size.

- A. Mouse.
- B. Horse.
- C. Elephant.
- D. Dog.



1

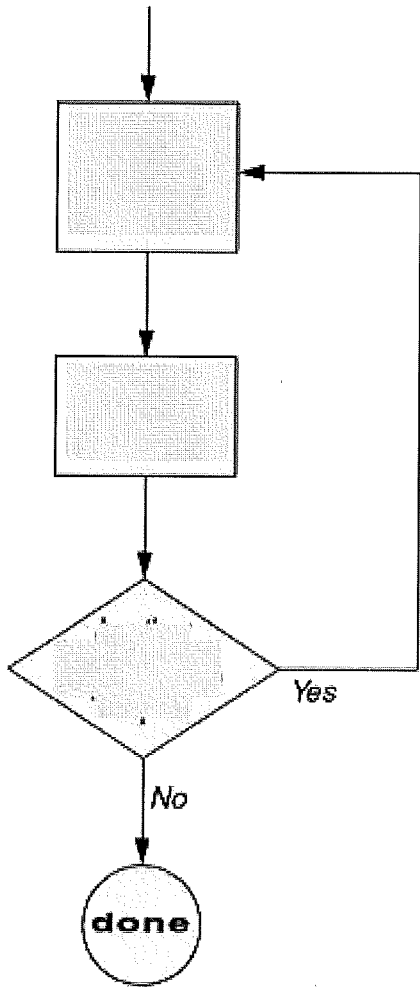


A B C D

01

02 A   B   C   D

**Good Luck!**



4. The image shows...

- A. CASE
- B. IF
- C. IF-ELSE
- D. FOR

5. What does a linuxbased Samba-client do?

- A. sharing files and printers from linux systems to Windows.
- B. enabling a linux system using shared files or printers on a Windows system.
- C. sharing files and printers from windows systems to Linux.
- D. enables a windows system using shared files or printers on a Linux system.

6. Who is the owner?

d--x--x--- 3 pubs zach 512 2010-03-10 15:16 ide

- A. pubs
- B. ide
- C. zach
- D. The owner cannot be identified.

15. A hard drive is typically a:

- A. None of the options.
- B. Character device.
- C. Block device.
- D. Track device.

16. The command to copy a file from another computer via secure shell is:

- A. ssh
- B. scp
- C. sftp
- D. sshd

17. What is your last resort if you can't kill a process?

- A. kill -9 PID
- B. kill -TERMINATE PID
- C. rm -R /
- D. None of the options.

18. The command to log into another computer via secure shell is:

- A. sshd
- B. scp
- C. ssh
- D. sftp

19. What is correct for FTP?

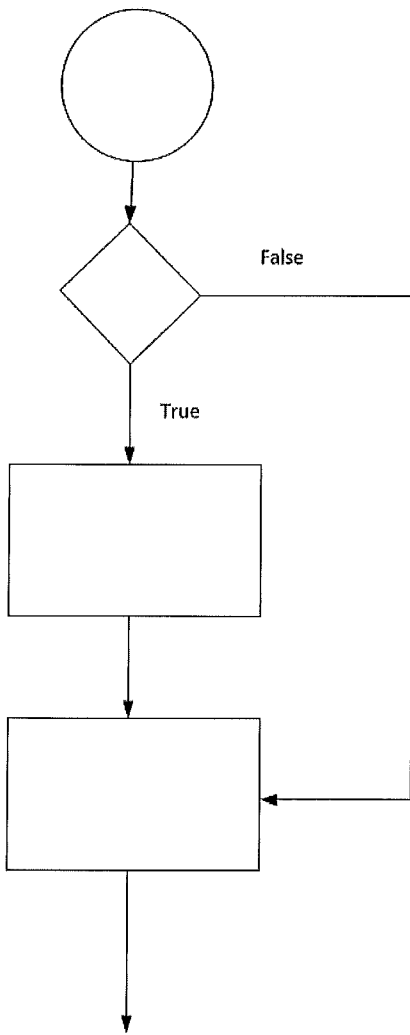
- A. The password is sent encrypted, the data are transmitted encrypted.
- B. The password is sent encrypted, the data is sent in clear text.
- C. The password is sent in clear text, the data are transmitted encrypted.
- D. The password is sent in clear text, the data is sent in clear text.

20. To change the folder for where your webserver will find their executables, change the variable:

- A. None of the options.
- B. serverroot
- C. userdirectory
- D. documentroot

21. What does noclobber do?

- A. Prevents deletion using rm.
- B. Prevent confusion with |.
- C. Prevents overwriting with >.
- D. Prevents deletion using mv.



26. The picture shows ...

- A. IF-ELSE
- B. FOR

- C. CASE
- D. IF

27. What is the purpose of -x?

bash -x script

- A. Other purpose
- B. X-server = on (graphics)

- C. Debug
- D. Execute

28. What is /etc/apt/sources.list?

- A. A list of all packages to search when you want to install a package.
- B. A list of all installed packages.

- C. A list of all source code for all packages.
- D. A list of all sources to be searched when you want to install a package.

36. Identify the file name:

---x--x--- 3 zach pubs 512 2010-03-10 15:16 ide

- A. ide
- B. zach

- C. The file name cannot be deduced.
- D. pubs

37. The command to log into another computer via secure shell is:

- A. sshd
- B. ssh

- C. sftp
- D. scp

38. What is the role of the key [TAB] in the Terminal?

- A. Command rejection - erase what you've written.
- B. Reject completion - "guessing" what you have typed wrong.

- C. Command indent – indents the command 8 spaces.
- D. Command completion - "guessing" what to write.

39. What does su ide do?

- A. Switch from current user to super user (root) for ide's password.
- B. . Switch from current user to super user (root) for root's password.

- C. Ingenting. su är inte ett riktigt kommando.
- D. Switch from current user to the user ide.

40. Which of the options indicate a relative path?

- A. ../folder
- B. /folder

- C. A + B
- D. Neither A or B

5. You have a file dagar that looks as follows:

Måndag -3 ←  
Tisdag -6 ←  
Onsdag -4 ←  
Torsdag -7 ←  
Fredag -1  
Lördag -2  
Söndag -5 ←

*Handwritten notes:*  
[Sif] = F + H - 1

What will the result be if you run

cat dagar | sort | tail -4

**4 1 3 5**

*Handwritten notes:*  
[Sif] = F + H - 1

- 1 Söndag • 2
- 2 Måndag
- 3 Tisdag • 3
- 4 Onsdag • 1
- 5 Torsdag • 4
- 6 Fredag
- 7 Lördag • 2

*Handwritten notes:*  
[Sif] = F + H - 1

6. You have a file dagar that looks as follows:

Måndag  
Tisdag  
Onsdag  
Torsdag  
Fredag  
Lördag  
Söndag

What will the result be if you run

cat dagar | grep sda | tail -4

**3 4 5**

- 1 Söndag
- 2 Måndag
- 3 Tisdag • 1
- 4 Onsdag • 2
- 5 Torsdag • 3
- 6 Fredag
- 7 Lördag

*Handwritten notes:*  
[Sif] = F + H - 1

**Part 3-GRADE 5 – use the form 5**

WRITE AND ILLUSTRATE FREELY IN THE BOX ON THE FORM – BUT BE AWARE THAT WHAT CANNOT BE READ/DECIPHERED CANNOT BE GRADED. ONLY THE ANSWERS GIVEN WITHIN THE BOX ON FORM 5 WILL BE ACCOUNTED FOR. ADDITIONAL PAGES WILL BE DISCARDED.

Give comments on the four examples below. What do they do? What were they supposed to do?

-1-

```
user@ubuntu:~$ sudo ls /etc/ > /etc/all_files.txt
```

-2-

```
user@ubuntu:~$ pwd
/home/user
user@ubuntu:~$ sudo nano my_script
```

-3-

```
user@ubuntu:~$ ls
.  ..  [trash]  [folder1]  readme.txt  [Desktop]
user@ubuntu:~$ cat readme.txt > /bin/more
```

-4-

```
user@ubuntu:~$ pwd
/home/user
user@ubuntu:~$ ls
.  ..  [trash]  [folder1]  readme.txt  [Desktop]
user@ubuntu:~$ sudo rm -rf /trash
```

ls etc/ | sudo tee /etc/ > /dev/null

nano my\_script

cat readme.txt | /bin/more

space

no space

sudo rm -rf /trash