

CLI Commands

1. What shell command would you use to display the path of the current directory?

pwd

2. What shell command would you use to display the contents of the current working directory?

ls

ls .

3. If your current working directory is **/c/users/gregor/documents**

What shell command would change the working directory to **/c/users/gregor** ?

cd ..

cd /c/users/gregor

cd ~

cd ../

4. Which of the following shell commands would change the current working directory to your home directory?

☐ A cd home

☐ B cd ..

☐ C cd /

☒ D cd ~

☐ E I don't know

5. Which shell command removes a directory?

☐ A remove

☐ B rm

☒ C rmdir

☐ D rd

☐ E I don't know

6. Which shell command removes a directory if it has files in it?

- ☐ A remove
- ☒ B `rm -r`
- ☐ C `rmdir`
- ☐ D `rd`
- ☐ E I don't know

7. What command would you use to show all files in the current directory (including hidden files)?

`ls -a`
`ls -al`
`ls -la`

8.

0	0	0	0	0	0	0	0
124	64	32	16	8	4	2	1

What is a string of 8 1's or 0's called in binary?

- ☐ A bit
- ☒ B byte
- ☐ C nibble
- ☐ D gulp

- i
- A single 1/0 is called a **bit**
 - 8 bits are called a **byte**
 - you may be surprised to learn that half a byte is referred to as a **nibble**
 - a **gulp** is not a binary term, but most programmers have a big gulp close by while they are working

9. What decimal number is represented by this binary string?

00001101

- ☒ A 13
- ☐ B 12
- ☐ C 21
- ☐ D 15

i

0	0	0	0	1	1	0	1
124	64	32	16	8	4	2	1

Because the 8,4, and 1 are the only values that are "on" we add them together

$$8 + 4 + 1 = 13$$

10.

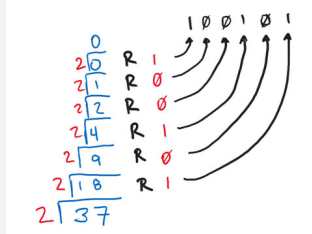
0	0	0	0	0	0	0	0
124	64	32	16	8	4	2	1

What is the number 37 in binary?

00100101

100101

i



Option 1

You determine the largest binary value that can be subtracted from the decimal number (without making it negative) - in this case 32. Keep doing this until the decimal number is 0

$$37 - 32 = 5 \rightarrow 00100000$$

$$5 - 4 = 1 \rightarrow 00000100$$

$$1 - 1 = 0 \rightarrow 00000001$$

Combine the binary numbers to 00100101

Option 2

You can divide the decimal number by 2 until both the answer and the remainder are 0 as shown in the picture.

100101

You can add additional 0's at the front to make a byte (8 numbers)
00100101

11. What color does the following hexadecimal number represent?

00FF00

A Blue

B Red

✓ C Green

D Black

E White

i

Colors on the web are represented by 3 numbers: RGB (Red, Green, Blue)

Each color has 256 possible values: 0-255 or written in Hex 00 to FF

00 means that the color has NO value and FF means that the color has the MAX value

16 million possible color combinations can be displayed with this RGB color system.

12. How would you write the hex value for the color white?

#ffffff
ffffff
#FFFFFF
FFFFFF

13. How would you write the hex value for the color black?

#000000
000000

14. What color would you guess is represented by this Hex value?

999999
GRAY
Gray
gray
GREY
Grey
grey