

Three pixel art clouds are positioned in the sky. One is on the left, one in the center, and one on the right. They are rendered in shades of blue, purple, and yellow.

GAME SHELL

The bottom half of the image features a pixel art landscape. A green grid floor extends across the scene. On the left and right sides, there are pixel art trees with green foliage and brown trunks. Along the bottom edge, there is a row of red hearts on the left and a row of pink diamonds on the right, both resting on a green grassy ground.

PLAY

File Actions Edit View Help

```
[mission 1] $ pwd
/home/davide/gameshell/World
[mission 1] $ ls
Castle  Forest  Garden  Mountain  Stall
[mission 1] $ cd Castle
[mission 1] $ ls
Cellar  Great_hall  Main_building  Main_tower  Observatory
[mission 1] $ cd Main_tower
[mission 1] $ ls
First_floor
[mission 1] $ cd First_floor/
[mission 1] $ ls
Second_floor
[mission 1] $ cd Second_floor/
[mission 1] $ ls
Top_of_the_tower
[mission 1] $ cd Top_of_the_tower/
[mission 1] $ gsh check
```

Congratulations, mission 1 has been successfully completed!

```
| berscecu |
--+-----+--
| Use the command
| $ gsh help
| to get the list of "gsh" commands. |
--+-----+--
|
```

[mission 2] \$ █

KALI LINUX

"the quieter you become, the more you are able to hear"

```
|
--+-----
| Use the command
```

```
|
--+-----+
| Use the command
| $ gsh help
| to get the list of "gsh" commands
|
```



~/Castle/Main_building/Throne_room
[mission 4] \$ gsh goal

Mission goal

Build a "Hut" in the forest, and then build a "Chest" in the hut.

Useful commands

mkdir DIRECTORY
Create a new directory inside the current directory.
Remark: ``mkdir`` is an abbreviation for "make directory".

~/Castle/Main_building/Throne_room
[mission 4] \$ cd

~/Forest/
[mission 4] \$ cd Forest/

~/Forest
[mission 4] \$ mkdir Hut

~/Forest
[mission 4] \$ cd Hut/

~/Forest/Hut
[mission 4] \$ mkdir Chest

~/Forest/Hut
[mission 4] \$ gsh check

Congratulations, mission 4 has been successfully completed!

Use the command

\$ gsh help

to get the list of "gsh" commands.

~/Forest/Hut
[mission 5] \$

File Actions Edit View Help

Congratulations, mission 5 has been successfully completed!

Trash

```
|
--+-----+
| Use the command
| $ gsh help
| to get the list of "gsh" commands.
--+-----+
|
```

```
~/Castle/Cellar
[mission 6] $ gsh goal
```

Home

Mission goal

Collect all the coins that you can find in the garden in front of the castle, and put them in your chest in your hut in the forest.

Useful commands

```
mv FILE1 FILE2 ... FILEn DIRECTORY
Move the files to the directory.
Remark: ``mv`` is an abbreviation of "move".
```

```
~
The "~" symbol is an abbreviation for the initial directory.
Example: wherever you are, ``~/Tavern`` denotes the directory (or file) "Tavern" in the initial directory.
```

```
~/Castle/Cellar
[mission 6] $ cd ../../Garden/
```

```
~/Garden
[mission 6] $ ls
Flower_garden  Maze  Shed  coin_1  coin_2  coin_3
```

```
~/Garden
[mission 6] $ mv coin_1 coin_2 coin_3 ../Forest/Hut/Chest/
```

```
~/Garden
[mission 6] $ gsh check
```

Congratulations, mission 6 has been successfully completed!

```
|
--+-----+
| Use the command
```

File Actions Edit View Help

Mission goal

Collect all the coins hidden in the garden in front of the castle, and put them in your chest (in your hut in the forest).

Secondary objective

Learn how to use the "Tab" key to go faster.

Useful commands

ls -A

List all the files of the current directory, including hidden files. (A file is "hidden" when its name starts with a dot.)

Tab

The tabulation key "completes" the name of a file or directory once you have typed the beginning of its name. This only works if there is only one possible completion.

Tab-Tab

Pressing tabulation twice successively shows a list of possible completions.

```
~/Garden
[mission 7] $ ls -A
.21818_coin_1  .25265_coin_2  .6516_coin_3  Flower_garden  Maze  Shed
```

```
~/Garden
[mission 7] $ mr .21818_coin_1 .25265_coin_2 .6516_coin_3 ../Forest/Hut/Chest/ Qui ho sbagliato a digitare la lettera
Command 'mr' not found, but can be installed with:
sudo apt install myrepos
Do you want to install it? (N/y)n
```

```
~/Garden
[mission 7] $ mv .21818_coin_1 .25265_coin_2 .6516_coin_3 ../Forest/Hut/Chest/
```

```
~/Garden
[mission 7] $ gsh check
```

Congratulations, mission 7 has been successfully completed!

File Actions Edit View Help

Trash

Shell patterns

The "*" character stands in for any sequence of characters (including an empty sequence).

?

The "?" character stands in for any single character.

Those wildcards can be used to denote lists of existing files / directories in the current working directory.

For example: if the current folder contains

```
file-1 Folder-1 file-14 potato
```

then

*	→	file-1 Folder-1 file-14 potato
*1	→	file-1 Folder-1
0	→	Folder-1 potato
x*	→	error, no matching file
*-?	→	file-1 Folder-1
*-??	→	file-14

(*)

^

~/Garden

[mission 8] \$ cd ../Castle/Cellar/

~/Castle/Cellar

[mission 8] \$ ls -A

10537_spider_18	14186_spider_25	16001_spider_50	18426_bat_5	22559_spider_13	24514_bat_4	27414_spider_12	30520_spider_27	3137_spider_10	5491_spider_19	6422_spider_40	barrel_of_apples
11212_spider_5	14350_spider_43	16394_spider_30	18919_bat_3	22627_spider_6	25121_bat_2	28640_spider_2	30597_spider_20	32188_spider_42	558_spider_33	6575_spider_28	
11243_spider_29	14380_spider_14	16531_spider_47	2129_spider_7	22803_spider_15	2536_bat_1	28953_spider_1	30623_spider_24	4045_spider_34	5860_spider_35	7453_spider_23	
12536_spider_31	14561_spider_26	1759_spider_32	21957_spider_17	22938_spider_49	25674_spider_8	2972_spider_48	31121_spider_21	4610_spider_11	6232_spider_37	764_spider_36	
12897_spider_44	1522_spider_4	17946_spider_16	22030_spider_45	24117_spider_22	26464_spider_46	30434_spider_38	31326_spider_39	4947_spider_3	6338_spider_41	8055_spider_9	

Questo comando è estremamente utile perché permette di prendere grandi quantità di file in maniera anche piuttosto precisa. Col ? possiamo anche prendere un singolo carattere anziché tutti

~/Castle/Cellar

[mission 8] \$ rm *_spider_*

~/Castle/Cellar

[mission 8] \$ ls

```
18426_bat_5 18919_bat_3 24514_bat_4 25121_bat_2 2536_bat_1 barrel_of_apples
```

~/Castle/Cellar

[mission 8] \$ gsh check

Congratulations, mission 8 has been successfully completed!

```
~/Castle/Cellar
[mission 9] $ ls -A
.10532_spider_30 .13873_spider_43 .1823_bat_4 .20608_spider_20 .2354_spider_28 .27821_spider_7 .29727_spider_23 .4016_spider_24 .5766_spider_5 .8444_spider_37 barrel_of_apples
.11248_bat_3 .14718_spider_15 .18321_spider_3 .22584_spider_19 .24656_spider_29 .2814_spider_10 .30873_spider_34 .4040_spider_41 .6360_spider_48 18426_bat_5
.12392_spider_44 .16204_spider_2 .18809_bat_1 .22880_spider_16 .24732_spider_11 .28444_spider_6 .32485_spider_21 .4462_spider_18 .6947_spider_36 18919_bat_3
.12440_spider_25 .16640_spider_33 .19120_spider_22 .23102_spider_39 .25721_spider_31 .28452_spider_12 .32729_spider_40 .4858_spider_4 .7402_bat_5 24514_bat_4
.13027_spider_45 .17662_spider_46 .19168_spider_50 .23113_spider_32 .27688_bat_2 .29251_spider_17 .3560_spider_1 .5269_spider_26 .7694_spider_35 25121_bat_2
.13653_spider_8 .17772_spider_42 .19746_spider_9 .23194_spider_49 .27757_spider_14 .29668_spider_13 .387_spider_27 .5580_spider_38 .8240_spider_47 2536_bat_1
```

```
~/Castle/Cellar
[mission 9] $ ls
18426_bat_5  18919_bat_3  24514_bat_4  25121_bat_2  2536_bat_1  barrel_of_apples
```

From now on, the `ls` command will automatically show a `/` character at the end of directories.



```
Use the command
$ gsh help
to get the list of "gsh" commands.
```

New Film

Use the command



THANK YOU FOR
PLAYING WITH US!

BY DAVIDE LECCI

EXIT