

```
File Actions Edit View Help
| ls
| Show a list of locations that are currently accessible.
| Remark: `ls` is an abbreviation of "list".
| gsh check
| Check if the mission objective has been achieved.
| gsh reset
| Restart the mission from the beginning.

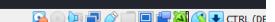
Remarks
-----
UPPERCASE words appearing in commands are meta-variables: you need to replace them by appropriate (string) values.
Most filesystems treat uppercase and lowercase characters differently. Make sure you use the correct path.
()=( ) @=()
```

```
[mission 1] $ pwd
/home/Kali/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!

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

```
[mission 2] $
```



```
File Actions Edit View Help
kali@kali:~
[mission 3] $ ls
Castle Forest Garden Mountain Stall
[mission 3] $ cd Castle/Great_hall/Throne_room: No such file or directory
[mission 3] $ ls
[mission 3] $ cd Castle/Great_hall
[mission 3] $ ls
[mission 3] $ cd ..
[mission 3] $ ls
[mission 3] $ cd Castle/Main_building
[mission 3] $ ls
Library Throne_room
[mission 3] $ cd
[mission 3] $ cd Castle/Main_building/Throne_room
[mission 3] $ gsh check
```

Congratulations, mission 3 has been successfully completed!

```
Well done!!!
From now on, the current location will be shown just before the command prompt.

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

```
~/Castle/Main_building/Throne_room
[mission 4] $
```



```
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```

```
File Macchina Visualizza Inserimenti Depositi Auto
```



```
File Actions Edit View Help
```

```
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
```

```
~
```

```
[mission 6] $ ls
```

```
Castle Forest Garden Mountain Stall
```

```
~
```

```
[mission 6] $ cd Garden
```

```
~/Garden
```

```
[mission 6] $ ls
```

```
coin_1 coin_2 coin_3 Flower_garden Maze Shed
```

```
~/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
| $ gsh help
| to get the list of "gsh" commands.
|-----|
```

```
~/Garden
```

```
[mission 7] $
```



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File Macchina Visualizza Inserimento Dispositivi Aiuto

kali@kali:~

```
[mission 9] $ gsh goal
```

```
    / \ Mission goal
    | \_
    | The spiders are getting clever: they found a way to hide.
    | Get rid of all the spiders that are hiding in the cellar without disturbing the bats.

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

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

    Remark
    _____
    The wildcards "*" and "?" don't see hidden files, you need to add an explicit dot at the start of the pattern.
```

```
~/Castle/Cellar
[mission 9] $ ls -A
.1044_spider_23 .13471_bat_9 .14646_spider_42 .17681_spider_36 .20236_spider_34 .22306_spider_38 .26007_spider_26 .26281_spider_15 .27938_bat_2 .30709_spider_11 .5716_bat_3 .8063_spider_17 barrel_of_apples
.1044_spider_41 .13472_spider_25 .14710_spider_3 .16049_spider_20 .17305_spider_14 .22307_spider_7 .23237_spider_45 .26882_spider_10 .26883_spider_24 .31906_bat_1 .6308_spider_18 .8603_spider_9
.10592_spider_50 .13694_spider_5 .16048_spider_39 .18138_spider_48 .21459_spider_28 .23357_spider_33 .25466_spider_47 .26560_spider_22 .29365_spider_49 .30984_spider_44 .7795_spider_31 .8853_spider_43
.11140_bat_1 .14182_spider_27 .16986_spider_13 .19105_spider_30 .21592_spider_20 .24077_bat_1 .25714_spider_19 .27660_spider_4 .29990_bat_4 .32495_spider_48 .795_spider_6 .8886_spider_32
.12634_spider_10 .14465_spider_29 .17499_spider_35 .19167_spider_37 .21948_bat_4 .24244_spider_12 .26256_bat_5 .27754_spider_8 .39225_spider_2 .4372_spider_1 .8075_spider_16 .9194_bat_2

-/Castle/Cellar
[mission 9] $ rm *.?*??????_*
```

```
-/Castle/Cellar
[mission 9] $ ls -A
.11140_bat_1 .13421_bat_3 .21940_bat_4 .24077_bat_1 .26256_bat_5 .27938_bat_2 .29990_bat_4 .31906_bat_5 .5716_bat_3 .9194_bat_2 barrel_of_apples

-/Castle/Cellar
[mission 9] $ gsh check

Congratulations, mission 9 has been successfully completed!
```

kali@kali:~

```
[mission 11] $ cp FILE1 FILE2 ... FILEn DIRNAME
Useful commands
_____
cp FILE1 FILE2 ... FILEn DIRNAME
Copy the files to the directory.
Remark: "cp" is an abbreviation of "copy".
```

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

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

```
~/Castle/Great_hall
[mission 11] $ ls -A
13444_decorative_shield 15504_tapestry_05 31143_tapestry_02 33247_stag_head 56103_tapestry_10 56977_tapestry_09 8264_tapestry_07 standard_2 standard_4
1364_suit_of_armour 29218_tapestry_08 33155_tapestry_06 42719_tapestry_04 56950_tapestry_03 7743_tapestry_01 standard_1 standard_3
```

```
-/Castle/Great_hall
[mission 11] $ cp *.*.? ~/Forest/Hut/Chest
```

```
-/Castle/Great_hall
[mission 11] $ gsh check

Congratulations, mission 11 has been successfully completed!
```

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

kali@kali:~

```
( ) Define the synonym
( ) la
( ) for the command
( ) ls -A
( ) and check that it works as expected.
( ) How fortunate, there is a nice rock hidden just where you are.
( ) Useful commands
( )
( ) alias STRING='COMMAND'
( ) Create a synonym for a string, that will stand for a command.
( )
```

```
~[mission 14] $ alias la=ls -A
bash: alias: -A: not found
~[mission 14] $ alias la="ls -A"
~[mission 14] $ la
.bashrc Castle/ Forest/ Garden/ .lessht Mountain/ .nice_rock Stall/
~[mission 14] $ gsh check

Congratulations, mission 14 has been successfully completed!
```

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

kali@kali:~

The screenshot shows a terminal window on Kali Linux with the title "kali-linux-2023.1-virtualbox-amd64 [In esecuzione] - Oracle VM VirtualBox". The terminal displays a challenge from the game "Lair of the Spider Queen". The user has run the command "xeyes" and is instructed to run "xkeyes" in the background. The terminal also lists useful commands: "xeyes" (open a window with 2 eyes tracking the mouse), "COMMAND &" (run the command in the background), and "Control-c" (interrupt current command). The user has completed the challenge by running "xkeyes" and pressing Control-c. The terminal shows the message "Congratulations, mission 18 has been successfully completed!"

```
Use the Command  
$ gsh help  
to get the list of "gsh" commands.  
  
-./Castle/Cellar/.Lair_of_the_spider_queen XWjRyYABXPcVJDIu FYu5rkUqVJpbKxw  
kali-linux-2023.1-virtualbox-amd64 [In esecuzione] - Oracle VM VirtualBox  
File Macchina Visualizza Instrumen... Dispositivi Aut...  
File Actions Edit View Help  
  
-./Castle/Cellar/.Lair_of_the_spider_queen XWjRyYABXPcVJDIu FYu5rkUqVJpbKxw  
[mission 19] $ gsh goal  
(-_-)  
|| Mission goal  
||| Find the copper coin in the small maze in the garden and move it to your chest.  
||| If you want, you can use a graphical file manager. The maze is to be found in directory  
||| /home/kali/gameshell/world/Garden/Maze  
|||
```



kali-linux-2023.1-virtualbox-amd64 [In esecuzione] - Oracle VM VirtualBox

File Macchina Visualizza Inserimento Dispositivi Aiuto

File Actions Edit View Help

~/Mountain/Cave  
[mission 26] \$ gsh goal

```
| \_ Mission goal
|   \_ Fiche
|     \_ The old hermit is thirsty and he would like you lookup the recipe for distilled water.
|     \_ In order to validate the mission, you need to be in the cave with Servillus **and** your last command prior to ``gsh check`` must show the steps for the recipe and nothing else.
|     \_ Note: you shouldn't alter the content of the book of potions.
|
|     \_ Useful commands
|       \_ head [-n K] [FILE]
|           Print the first lines (10 by default, K if ``--n K`` is used) of the given file, or standard input if no file is given.
|       \_ tail [-n K] [FILE]
|           Print the last lines (10 by default, K if ``--n K`` is used) of the given file, or standard input if no file is given.
|       \_ COMMAND1 | COMMAND2
|           Run the two commands, feeding the "standard output" of the former into the "standard input" of the latter.
|           Remark: by analogy with plumbing "|" is called "pipe".
|
|     \_ Remark
|       \_ Parts in [square brackets] in command descriptions are stand for optional parts. The brackets are not part of the command.
```

~/Mountain/Cave  
[mission 26] \$