

# GameShell

*DATA*  
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## Traccia:

La prova consiste nel fine il gioco Gameshell gioco a riga di comando dove si mette in pratica ogni comando appreso durante le lezioni.

## Conclusione:

Il gioco è stato uno strumento utile per consolidare i comandi appresi durante le lezioni, offrendo allo stesso tempo un efficace metodo per affrontare le missioni.

## Di seguito gli screen shoot delle missioni:

```
Sorry, mission 1 hasn't been completed.

File System
+--+
| Run the command
| $ gsh goal
| to discover your first mission.
|
| You can check the mission has been completed with
| $ gsh check
|
| The command
| $ gsh help
| displays the list of available (gsh) commands.
+--+
| [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] $ ls -la
total 12
drwxr-xr-x 3 kali kali 4096 Dec 15 13:33 .
drwxr-xr-x 7 kali kali 4096 Dec 15 13:33 ..
drwxr-xr-x 3 kali kali 4096 Dec 15 13:33 First_floor
[mission 1] $ cd First_floor/
[mission 1] $ ls
Second_floor
[mission 1] $ Cd Second_floor/
Cd: command not found
[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] $ ls
[mission 1] $ ls
[mission 1] $ gsh check
[mission 1] Congratulations, mission 1 has been successfully completed!
```

Missione1:

```

/ \
| |
| Mission goal
| =====
| Go the castle's cellar.

File System
| Secondary objective
| =====
| Understand the difference between ``cd -`` and ``cd ..``.

Home
| Useful commands
| =====
| cd -
| Jump back to the location you were in prior to your last move.
|
| cd ..
| Move to the parent directory (one step back along the path to your current location).
|
| pwd
| See the path to your current location.

[mission 2] $ ls
[mission 2] $ cd..
cd..: command not found
[mission 2] $ cd ..
[mission 2] $ ls
Top_of_the_tower
[mission 2] $ cd ..
[mission 2] $ cd ..
[mission 2] $ cd ..
[mission 2] $ ls
Cellar Great_hall Main_building Main_tower Observatory
[mission 2] $ cd Cellar/
[mission 2] $ ls
barrel_of_apples
[mission 2] $ gsh check

```

**Mission 2:**

```

[mission 3] $ gsh goal
()=(, system
| Mission goal
| =====
| Go back to the starting location and then go to the throne room using only two commands.
|
| Remark
| =====
| You may experiment with as many commands as you want, but
| to validate the mission the following conditions need to be met:
| - the second to last command takes you to the starting point,
| - the last command takes you directly to the throne room.

| Useful commands
| =====
| cd
| Move back to the starting location.
|
| cd LOCATION1/LOCATION2/LOCATION3
| Make several moves in one command.

| Remark
| =====
| UPPERCASE words appearing in commands are meta-variables: you need to replace them with lowercase equivalents.

[mission 3] $ cd
[mission 3] $ cd Castle/
Cellar/      Great_hall/    Main_building/ Main_tower/    Observatory/
[mission 3] $ cd Castle/Main_building/
Library/    Throne_room/
[mission 3] $ cd Castle/Main_building/Throne_room/
[mission 3] $ gsh check

```

**Mission 3:**

```
File System
|- Home
  |- Mission goal
    =====
    Build a "Hut" in the forest, and then build a "Chest" in
    it.

  |- Useful commands
    =====
    mkdir DIRECTORY
    Create a new directory inside the current directory.
    Remark: ``mkdir'' is an abbreviation for "make directory"

~/Forest
[mission 4] $ ls

~/Forest
[mission 4] $ mkd
mkdir      mkdosfs

~/Forest
[mission 4] $ mkdir Hut

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

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

Congratulations, mission 4 has been successfully completed!
```

## Mission 4:

## Mission 5:

Example: wherever you are, ~/Tavern denotes the directory (or file) containing the Tavern executable.

File System

```
~ [mission 6] $ cd Garden/
coin_1          coin_2          coin_3          Flower_garden/ Maze/      Shed/
~ [mission 6] $ cd Garden/
coin_1          coin_2          coin_3          Flower_garden/ Maze/      Shed/
~ [mission 6] $ cd Garden/
~/Garden
[mission 6] $ mv coin_
coin_1  coin_2  coin_3
~/Garden
[mission 6] $ mv coin_1 ./Flower_garden/flowers
coin_1          coin_2          coin_3          Flower_garden/ Maze/      Shed/
~/Garden
[mission 6] $ mv coin_1 ./Flower_garden/flowers
coin_1          coin_2          coin_3          Flower_garden/ Maze/      Shed/
~/Garden
[mission 6] $ mv coin_1
coin_1          coin_2          coin_3          Flower_garden/ Maze/      Shed/
~/Garden
[mission 6] $ mv coin_1 ../Forest/Hut/Chest/
~/Garden
[mission 6] $ mv coin_2 ../Forest/Hut/Chest/
~/Garden
[mission 6] $ mv coin_3 ../Forest/Hut/Chest/
~/Garden
[mission 6] $ ls
Flower_garden  Maze  Shed
~/Garden
[mission 6] $ gsh check
```

**Mission6:** Congratulations, mission 6 has been successfully completed!

```
[mission 7] $ cd Garden/
[mission 7] $ mv .coin_3 ..Forest/Hut/Chest/
[mission 7] $ mv ../.bashrc .lessht
[mission 7] $ mv ../.bashrc .lessht
mv: cannot stat '.11011_coin_3': No such file or directory
[mission 7] $ mv ./.bashrc .lessht
[mission 7] $ mv ./.bashrc .lessht
[mission 7] $ ls
Castle Forest Garden Mountain Stall
[mission 7] $ cd Garden/
[mission 7] $ mv .11011_coin_1 .25889_coin_3 .35497_coin_2 Flower_garden/ Maze/ Shed/
[mission 7] $ cd Garden/
[mission 7] $ ls
Flower_garden Maze Shed
[mission 7] $ mv ../.11011_coin_1 .25889_coin_3 .35497_coin_2
[mission 7] $ mv ../.coin_3 ..Forest/Hut/Chest/
[mission 7] $ mv ../.coin_3 ..Forest/Hut/Chest/
[mission 7] $ mv .35497_coin_2 ..Forest/Hut/Chest/
[mission 7] $ gsh check
```

Mission7: Congratulations, mission 7 has been successfully completed!

```

~/Garden
[mission 8] $ ls
Flower_garden Maze Shed

~/Garden
[mission 8] $ cd

~
[mission 8] $ ls
Castle Forest Garden Mountain Stall

~
[mission 8] $ cd Castle/
Cellar/      Great_hall/    Main_building/ Main_tower/    Observatory/

~
[mission 8] $ cd Castle/Cellar/
1010_spider_21   12409_spider_47   14717_spider_45   17583_spider_31   20998_spider_43
10652_spider_8   13333_spider_2   1614_spider_16   17942_spider_7   22145_spider_12
11425_spider_15  13543_spider_36  16587_spider_25  19802_bat_4   2225_spider_5
12108_spider_11  13990_spider_23  16665_spider_10  20070_spider_29  22784_spider_14
12344_spider_1   1406_spider_26   17541_spider_18  20391_spider_41  23122_spider_13

~
[mission 8] $ cd Castle/Cellar/
~/Castle/Cellar
[mission 8] $ rm *_spider_*
~/Castle/Cellar
[mission 8] $ ls
19802_bat_4  3689_bat_5  3926_bat_3  6796_bat_1  7269_bat_2  barrel_of_apples

~/Castle/Cellar
[mission 8] $ ghs check
Command 'ghs' not found, did you mean:
  command 'ghb' from deb handbrake
  command 'gs' from deb ghostscript
  command 'gjs' from deb gjs
  command 'gss' from deb libgss-dev
  command 'gh' from deb gh
  command 'ghc' from deb ghc
Try: sudo apt install <deb name>

~/Castle/Cellar
[mission 8] $ gsh check
Congratulations, mission 8 has been successfully completed!

```

Mission 8:

```

~/Castle/Cellar
[mission 9] $ rm *_spider_*

~/Castle/Cellar
[mission 9] $ ls -la
total 52
drwxr-xr-x 2 kali kali 4096 Dec 15 14:04 .
drwxr-xr-x 7 kali kali 4096 Dec 15 13:33 ..
-rw-r--r-- 1 kali kali 192 Dec 15 14:00 19802_bat_4
-rw-r--r-- 1 kali kali 196 Dec 15 14:03 .20707_bat_5
-rw-r--r-- 1 kali kali 196 Dec 15 14:03 .26568_bat_2
-rw-r--r-- 1 kali kali 196 Dec 15 14:03 .27570_bat_3
-rw-r--r-- 1 kali kali 258 Dec 15 14:03 .28359_bat_4
-rw-r--r-- 1 kali kali 149 Dec 15 14:00 3689_bat_5
-rw-r--r-- 1 kali kali 149 Dec 15 14:00 3926_bat_3
-rw-r--r-- 1 kali kali 211 Dec 15 14:00 6796_bat_1
-rw-r--r-- 1 kali kali 149 Dec 15 14:00 7269_bat_2
-rw-r--r-- 1 kali kali 196 Dec 15 14:03 .9935_bat_1
-rw-r--r-- 1 kali kali 121 Dec 15 13:41 barrel_of_apples

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

```

Mission 9:

```
/ Mission goal
| \_____
| | \_ You have taken a fancy to the four standards in the great hall of the castle. As such, you must copy them to the Observatory.
| |
| | Useful commands
| |
| | cp FILE DIRNAME
| | Copy the file to the directory.
| | Remark: ``cp`` is an abbreviation of "copy".
| |
| |
~ [mission 10] $ gsh check
I only wanted the standards!
Sorry, mission 10 hasn't been completed.

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

~ [mission 10] $ cp Castle/
Cellar/      Great_hall/    Main_building/ Main_tower/    Observatory/
~ [mission 10] $ cp Castle/Great_hall/standard_* Forest/Hut/Chest/
.11011_coin_1 .25889_coin_3 .35497_coin_2 coin_1       coin_2       coin_3
~ [mission 10] $ cp Castle/Great_hall/standard_* Forest/Hut/Chest/
~ [mission 10] $ cd Forest/Hut/Chest/
.11011_coin_1 .25889_coin_3 .35497_coin_2 coin_1       coin_2       coin_3
~ [mission 10] $ gsh check
Congratulations, mission 10 has been successfully completed!
```

Missionone10:

```

| 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.
|
| \_.\
| \_\_\.\
| \_\_\_\.\
|
| ~
[mission 11] $ cd Castle/
Cellar/      Great_hall/    Main_building/ Main_tower/    Observatory/
|
| ~
[mission 11] $ cd Castle/Great_hall/
13093_tapestry_08      14405_tapestry_03      26052_tapestry_10      27790_tapestry_07
13895_tapestry_01      23637_tapestry_05      26660_tapestry_04      36662_tapestry_09
|
| ~
[mission 11] $ cd Castle/Great_hall/*_tapestry_* Forest/Hut/Chest/
bash: cd: too many arguments
|
| ~
[mission 11] $ cp Castle/Great_hall/*_tapestry_* Forest/Hut/Chest/
|
| ~
[mission 11] $ cd Forest/Hut/Chest/
.11011_coin_1      13895_tapestry_01      23637_tapestry_05      26052_tapestry_10      27790_tapestry_07
13093_tapestry_08      14405_tapestry_03      .25889_coin_3      26660_tapestry_04      .35497_coin_4
|
| ~
[mission 11] $ gsh Check
Error: unknown gsh command 'Check'.
Use one of the following commands: check, goal, help, reset
|
| ~
[mission 11] $ gsh check
|
| Congratulations, mission 11 has been successfully completed!

```

Mission 11:

```

bin/   flash/     dev/       home/      initrd.img.old  lib32/    lost+fo
boot/   etc/       initrd.img      lib/        lib64/     media/
|
| ~
[mission 12] $ cd Castle/Main_
Main_building/ Main_tower/
|
| ~
[mission 12] $ cd Castle/Main_tower/First_floor/
~/Castle/Main_tower/First_floor
[mission 12] $ ls
painting_MAsZXQQH  painting_QFjSneBc  painting_rTmfPVUU  Second_floor/
~/Castle/Main_tower/First_floor
[mission 12] $ ls -l
total 16
-rw-r--r-- 1 kali kali 1455 Dec 19 1987 painting_MAsZXQQH
-rw-r--r-- 1 kali kali 1502 May  3 2018 painting_QFjSneBc
-rw-r--r-- 1 kali kali 1055 Apr 10 2001 painting_rTmfPVUU
drwxr-xr-x 3 kali kali 4096 Dec 15 13:33 Second_floor/
~/Castle/Main_tower/First_floor
[mission 12] $ cp painting_MAsZXQQH ../First_floor/
painting_MAsZXQQH  painting_QFjSneBc  painting_rTmfPVUU  Second_floor/
~/Castle/Main_tower/First_floor
[mission 12] $ cd
|
| ~
[mission 12] $ Cd Castle/  Forest/Hut/Chest/
Cellar/      Great_hall/    Main_building/ Main_tower/    Observatory/
|
| ~
[mission 12] $ Cd Castle/  Forest/Hut/Chest/
Cellar/      Great_hall/    Main_building/ Main_tower/    Observatory/
|
| ~
[mission 12] $ Cd Castle/Main_  Forest/Hut/Chest/
Main_building/ Main_tower/
|
| ~
[mission 12] $ Cd Castle/Main_tower/First_floor/  Forest/Hut/Chest/
painting_MAsZXQQH  painting_QFjSneBc  painting_rTmfPVUU  Second_floor/
|
| ~
[mission 12] $ cp Castle/Main_tower/First_floor/painting_MAsZXQQH  Forest/Hut/Chest/
|
| ~
[mission 12] $ gsh check
|
| Congratulations, mission 12 has been successfully completed!

```

Mission 12:

```
[mission 13] $ cal -m 09 1908
  September 1908
Su Mo Tu We Th Fr Sa
      1  2  3  4  5
 6  7  8  9 10 11 12
13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28 29 30

~
[mission 13] $ cal -j 20 -m 09 1908
cal: 20 is neither a month number (1..12) nor a name

~
[mission 13] $ cal -y 20 -m 09 1908
cal: 20 is neither a month number (1..12) nor a name

~
[mission 13] $ cal -m 09 1908
  September 1908
Su Mo Tu We Th Fr Sa
      1  2  3  4  5
 6  7  8  9 10 11 12
13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28 29 30

~
[mission 13] $

~
[mission 13] $ gsh chek
Error: unknown gsh command 'chek'.
Use one of the following commands:  check, goal, help, reset

~
[mission 13] $ gsh check
What was the day of the week for the 09-20-1908?
 1 : Monday
 2 : Tuesday
 3 : Wednesday
 4 : Thursday
 5 : Friday
 6 : Saturday
 7 : Sunday
Your answer: 7
```

**Missione13:** Congratulations, mission 13 has been successfully completed!

```
| 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
.bashrc Castle/ Forest/ Garden/ .lessht Mountain/ .nice_rock Stall/
|
[mission 14] $ alias
alias -- -A='la'
alias ls='ls --literal -p'

|
[mission 14] $ la
la: command not found

|
[mission 14] $ alias la
bash: alias: la: not found

|
[mission 14] $ alias la='ls -A'

|
[mission 14] $ la
.bashrc Castle/ Forest/ Garden/ .lessht Mountain/ .nice_rock Stall/
|
[mission 14] $ gsh check
```

**Missione14:** Congratulations, mission 14 has been successfully completed!

```
[mission 15] $ ls
Castle/ Forest/ Garden/ Mountain/ Stall/
~
[mission 15] $ cd Forest/Hut/Chest/
~/Forest/Hut/Chest
[mission 15] $ nano journal.txt

~/Forest/Hut/Chest
[mission 15] $ gsh check

Congratulations, mission 15 has been successfully completed!

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

## Mission 15:

```
[mission 16] $ nano /home/kali/gameshell/World/Forest/Hut/Chest/  
.11011_coin_1 13895_tapestry_01 23637_tapestry_05 26052_tapestry_10 27790_tapestry_07 36662_tapestry_09 7391_tapestry_02 coin_2  
13093_tapestry_08 14405_tapestry_03 .25889_coin_3 26660_tapestry_04 .35497_coin_2 62394_tapestry_06 coin_1 coin_3 journal.txt standard_1  
painting_MasZQQH standard_2 standard_4  
~  
[mission 16] $ alias journal='nano /home/kali/gameshell/World/Forest/Hut/Chest/journal.txt'  
~  
[mission 16] $ journal  
~  
[mission 16] $ gsh check  
Congratulations, mission 16 has been successfully completed!  
  
A decorative dragon watermark is visible in the background.  
  
The terminal window shows a small ASCII-art dragon on the left side.  
  
Text output:  
Congratulations!  
From now on you can use the file  
"/-gshrc"  
to record aliases. More information can be found in the file (it has been created for you).  
  
Bottom command history:  
Use the command  
$ gsh help  
to get the list of "gsh" commands.
```

## Mission 16:

Mission 17:

```
There is no 'xeyes' process running.  
[1]+  Killed                  xeyes  
  
Sorry, mission 18 hasn't been completed.  
  
|  
+-----+  
| Use the command  
| $ gsh help  
| to get the list of "gsh" commands.  
+-----+  
|  
  
~/Castle/Main_building  
[mission 18] $ ^C  
  
~/Castle/Main_building  
[mission 18] $ xeyes  
^Z  
[1]+  Stopped                  xeyes  
  
~/Castle/Main_building  
[mission 18] $ bg %1  
[1]+ xeyes &  
  
~/Castle/Main_building  
[mission 18] $ gsh check  
  
Congratulations, mission 18 has been successfully completed!
```

## Mission 18:

```
~/Garden/Maze
[mission 19] $ mv 515467ab873d406/6900a1882b/47639d5cd660335c24b1eb14671a5e1/00000_copper_coin_00000 .. /Flower_garden/flowers
1736ba1c9c6df741c3429f8e77/ 515467ab873d406

~/Garden/Maze
[mission 19] $ mv 515467ab873d406/6900a1882b/47639d5cd660335c24b1eb14671a5e1/00000_copper_coin_00000 .. /
Flower_garden/ Maze/ Shed/

~/Garden/Maze
[mission 19] $ mv 515467ab873d406/6900a1882b/47639d5cd660335c24b1eb14671a5e1/00000_copper_coin_00000 .. /
Flower_garden/ Maze/ Shed/

~/Garden/Maze
[mission 19] $ mv 515467ab873d406/6900a1882b/47639d5cd660335c24b1eb14671a5e1/00000_copper_coin_00000 .. ..
.bashrc Castle/ Forest/ Garden/.gshrc .lessht .local/ Mountain/.nice_rock S-714

~/Garden/Maze
[mission 19] $ mv 515467ab873d406/6900a1882b/47639d5cd660335c24b1eb14671a5e1/00000_copper_coin_00000 .. ../Forest

~/Garden/Maze
[mission 19] $ gsh check

Congratulations, mission 19 has been successfully completed!
```

## Missione19:

```

└── d1bb80d1f231078dd073aa53cav7
    └── d32ea40e
        ├── 8bf547381c0d0d
        |   ├── 619e59e3333650284f33
        |   |   ├── 5fc6bbcfcbb618013f4d35da
        |   |   ├── b8c341ec0fbeb42
        |   |   ├── d9c7a920434577338090d860
        |   |   ├── 6584bf2a167dc4
        |   |   |   ├── 0e6e77402bc21887034cbde
        |   |   |   ├── b20776c8ae78919c9a
        |   |   |   └── caabca632
        |   |   ├── 755226d9ea48e110560
        |   |   |   ├── 200a32ff554a1f4ed9e2f6
        |   |   |   ├── 69bd1b558b973864bd
        |   |   |   └── dce6fc9df5f087deca3626a2c18d
        |   |   └── e2638b51
        |       ├── 14f528b9de43cc
        |       |   ├── 9a1b7aff678bccef324186f34990a
        |       |   ├── bd72f85169ee85e6
        |       |   ├── d2d1d6c782
        |       |   └── 46948bd122b0b9b1ba0682cb8cb46
        |       |       ├── 0d6933fff2dc497a7d2700038ad
        |       |       ├── 79bc49b49
        |       |       └── a44a8ac58dfc9
        |       └── f467af1d15a41ea5d45347ae3
        |           ├── 6080f42c0e69c1ed53cab
        |           ├── c0c0eb2b3969ec194dc0b0
        |           └── d6cedab8cfdd324cf68e1f58a
        └── 40 directories, 1 file

~/Garden/Maze
[mission 20] $ mv 8
83dfeef65f66/ 8bf547381c0d0d/
~/Garden/Maze
[mission 20] $ mv 83dfeef65f66/3a85902c29f4d/0fbcdceb2fb1ddb43/00000_silver_coin_00000 ... /Forest/Hut/Chest/
~/Garden/Maze
[mission 20] $ gsh cechk
Error: unknown gsh command 'cechk'.
Use one of the following commands: check, goal, help, reset
~/Garden/Maze
[mission 20] $ gsh check
Congratulations, mission 20 has been successfully completed!

```

## Mission 20:

```

~/Garden/Maze
[mission 21] $ find -iname '*gold*'
./d74ef8c8aebeab308/7df96edc368c77e809f/aee804bca/Gold_CoiN_2
./e388b7c3bf41c5f4f/f212c4a81affe6a23885b/b5b8befb07fb028516464d1ac3ba4ec/gold_coin_1

~/Garden/Maze
[mission 21] $ mv 0f428a3c8213a428694cc47cf5d/ 401ab039f7d853cf8/ 7a2ce1ea0ebd6d8015f4b8c7cf558dc/ d72ca0fa6fa431d/
31f6a802a693a555/ 62bcd31a7c0b8c1b84/ a009a6991f45c5483dc/ d74ef8c8aebeab308/

~/Garden/Maze
[mission 21] $ mv d72ca0fa6fa431d/ d74ef8c8aebeab308/
~/Garden/Maze
[mission 21] $ mv d74ef8c8aebeab308/7df96edc368c77e809f/aee804bca/Gold_CoiN_2 ... /Forest/Hut/Chest/
~/Garden/Maze
[mission 21] $ mv e388b7c3bf41c5f4f/f212c4a81affe6a23885b/b5b8befb07fb028516464d1ac3ba4ec/gold_coin_1 ... /Forest/Hut/Chest/
~/Garden/Maze
[mission 21] $ find -iname '*gold*'
~/Garden/Maze
[mission 21] $ gsh check
Congratulations, mission 21 has been successfully completed!

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

```

## Mission 21:

```

~/Mountain/Cave/Book_of_potions
[mission 22] $ head -n 6 page_07
Herbal tea
_____
1) Boil water.
2) Add herbs from the forest.
3) Let it sit for five minutes and drink while hot.

~/Mountain/Cave/Book_of_potions
[mission 22] $ cd ..
_____
~/Mountain/Cave
[mission 22] $ ls
Book_of_potions/ servillus
_____
~/Mountain/Cave
[mission 22] $ cd servillus
bash: cd: servillus: Not a directory
_____
~/Mountain/Cave
[mission 22] $ head -n 6 page_07
head: cannot open 'page_07' for reading: No such file or directory
_____
~/Mountain/Cave
[mission 22] $ ls
Book_of_potions/ servillus
_____
~/Mountain/Cave
[mission 22] $ head -n 6 Book_of_potions/page_07
Herbal tea
_____
1) Boil water.
2) Add herbs from the forest.
3) Let it sit for five minutes and drink while hot.

~/Mountain/Cave
[mission 22] $ gsh check
Congratulations, mission 22 has been successfully completed!
_____
|_____|_____
| Use the command |_____
| $ gsh help |_____
| to get the list of "gsh" commands. |_____
|_____|_____

```

Mission 22:

```

~/Mountain/Cave/Book_of_potions
[mission 23] $ cd ..
_____
~/Mountain/Cave
[mission 23] $ tail -n -9 Book_of_potions/page_12
1) Boil water in a cauldron.
2) Add in a few death caps (Amanita phalloides).
3) Also add a few fly agarics (Amanita muscaria).
4) And some destroying angels (Amanita virosa).
5) Mix in a few deadly webcaps (Cortinarius rubellus).
6) Feel free to add in any colourful fungi you have on hand.
7) Let half of the water evaporate.
8) Season with a pinch of salt and a few herbs.
9) Serve hot in a bowl.

~/Mountain/Cave
[mission 23] $ gsh check
Congratulations, mission 23 has been successfully completed!
_____
|_____|_____
| Use the command |_____
| $ gsh help |_____
| to get the list of "gsh" commands. |_____
|_____|_____

```

Mission 23:

```

~/Mountain/Cave
[mission 24] $ cat Book_of_potions/page_01 Book_of_potions/page_02
Transformation potion
_____
1) Boil water in a cauldron.
2) Add 3 measures of fluxweed to the cauldron.
3) Add 2 bundles of knotgrass to the cauldron.
4) Stir 4 times, clockwise.
5) Wave your wand then let potion brew for 80 minutes.
6) Add 4 leeches to the cauldron.
7) Crush 2 scoops of lacewing flies to a fine paste.
8) Add 2 measures of the crushed lacewings to the cauldron.
9) Heat for 30 seconds on a low heat.
10) Add 3 measures of boomslang skin to the cauldron.
11) Crush a bicorn horn into a fine powder.
12) Add 1 measure of the crushed horn to the cauldron.
13) Heat for 20 seconds at a high temperature.
14) Wave your wand then let potion brew for 24 hours.
15) Add 1 additional scoop of lacewings to the cauldron.
16) Stir 3 times, counter-clockwise.
17) Split potion into multiple doses, if desired.
18) Add a pieces of the person you wish to become.
19) Wave your wand to complete the potion.

~/Mountain/Cave
[mission 24] $ gsh check

Congratulations, mission 24 has been successfully completed!

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

```

Mission 24:

```

~/Mountain/Cave
[mission 25] $ cat Book_of_potions/page_03  Book_of_potions/page_04 | tail -n 16
1) Fill a cauldron with used bath water.
2) Put a moderately large frog in the water.
3) Let the preparation rest overnight.
4) The next morning thank and free your little green friend.
5) Boil the water and add in a few sticks of oak tree.
6) Crush 5 river stones to a fine powder.
7) Mix in a third of the powder and stir vigorously.
8) Let the preparation rest for a day.
9) Add hairs from the tail of a squirrel (willingly given).
10) Add the remaining stone powder.
11) Stir the potion very vigorously, in all directions.
12) Take some time to rest after such an effort.
13) Rest a little bit more.
14) Even take a nap if you want.
15) Add a few larch tree needles for seasoning.
16) Drink the potion from the cauldron.

~/Mountain/Cave
[mission 25] $ gsh check

Congratulations, mission 25 has been successfully completed!

```

Mission 25:

```
~/Mountain/Cave  
[mission 26] $ head -n 6 Book_of_potions/page_13 | tail -n 10  
Distilled water
```

```
1) Boil water in a big pot.  
2) Condense the vapor in a fresh container.  
3) Add minerals for a better taste (optional).
```

```
~/Mountain/Cave  
[mission 26] $ head -n 6 Book_of_potions/page_13 | tail -n 3  
1) Boil water in a big pot.  
2) Condense the vapor in a fresh container.  
3) Add minerals for a better taste (optional).
```

```
~/Mountain/Cave  
[mission 26] $ gsh check
```

```
Congratulations, mission 26 has been successfully completed!
```

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

Missione 26:

```
~/Mountain/Cave  
[mission 27] $ kill 252614  
bash: kill: (252614) - No such process
```

```
~/Mountain/Cave  
[mission 27] $ ps -ls  
error: list of session IDs must follow -s
```

```
Usage:  
ps [options]
```

```
Try 'ps --help <simple|list|output|threads|misc|all>'  
or 'ps --help <s|l|o|t|m|a>'  
for additional help text.
```

```
For more details see ps(1).
```

```
~/Mountain/Cave  
[mission 27] $ gsh check
```

```
Congratulations, mission 27 has been successfully comple
```

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

Missione 27:

```
kill -9 257283 kill -9 257283 | kill -9 257283 | kill -9 258962
~/Mountain/Cave
[mission 28] $ *#@*
&_**/~
!$-#
```

kill -9 257283 ps -la

F	S	UID	PID	PPID	C	PRI	NI	ADDR	SZ	WCHAN	TTY	TIME	CMD	
0	S	1000	39436	30226	0	80	0	-	1771	do_wai	pts/0	00:00:00	bash	
0	S	1000	39479	39436	0	80	0	-	2222	do_wai	pts/0	00:00:06	bash	
0	T	1000	193361	39479	0	80	0	-	2114	do_sig	pts/0	00:00:00	man	
1	T	1000	193368	193361	0	80	0	-	2114	do_sig	pts/0	00:00:00	man	
0	T	1000	193369	193361	0	80	0	-	645	do_sig	pts/0	00:00:00	sh	
0	T	1000	193378	193369	0	80	0	-	1464	do_sig	pts/0	00:00:00	less	
1	S	1000	256897		1	0	80	0	-	1372	hrtime	pts/0	00:00:00	spell
1	Z	1000	258962	256897	0	80	0	-	0	-	pts/0	00:00:00	spell	
4	R	1000	260194	39479	0	80	0	-	2719	-	pts/0	00:00:00	ps	

~/Mountain/Cave
[mission 28] \$ \*#@\*
&\_\*\*/~
!\$-#

kill -9 256897

~/Mountain/Cave
[mission 28] \$ kill -9 258962
bash: kill: (258962) - No such process

~/Mountain/Cave
[mission 28] \$ ps -la

F	S	UID	PID	PPID	C	PRI	NI	ADDR	SZ	WCHAN	TTY	TIME	CMD
0	S	1000	39436	30226	0	80	0	-	1771	do_wai	pts/0	00:00:00	bash
0	S	1000	39479	39436	0	80	0	-	2222	do_wai	pts/0	00:00:06	bash
0	T	1000	193361	39479	0	80	0	-	2114	do_sig	pts/0	00:00:00	man
1	T	1000	193368	193361	0	80	0	-	2114	do_sig	pts/0	00:00:00	man
0	T	1000	193369	193361	0	80	0	-	645	do_sig	pts/0	00:00:00	sh
0	T	1000	193378	193369	0	80	0	-	1464	do_sig	pts/0	00:00:00	less
4	R	1000	260411	39479	0	80	0	-	2719	-	pts/0	00:00:00	ps

~/Mountain/Cave
[mission 28] \$ gsh check

Mission 28: Congratulations, mission 28 has been successfully completed!

```
~/Castle/Cellar  
[mission 29] $ gsh check  
  
Congratulations, mission 29 has been successfully completed!  
  
Killed  
  
|  
+-----+  
| Use the command  
| $ gsh help  
| to get the list of "gsh" commands.  
+-----+
```

## Mission 29:

```
~/Castle/Cellar
[mission 30] $ gsh check
2 + 52 = ?? 54
20 + 37 = ?? 57
85 + 45 = ?? 130
94 + 70 = ?? 164
65 + 96 = ?? 161

Congratulations, mission 30 has been successfully completed!

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

## Mission 30:

```
[mission 31] $ gsh check COMMAND < Castle/Main_building/Library/Mathematics_101
73 * 92 = ?? 79 * 96 = ?? 42 * 58 = ?? 82 * 97 = ?? 71 * 18 = ?? 6 * 17 = ?? 50 * 8 = ?? 90
40 = ?? 58 * 14 = ?? 2 * 83 = ?? 76 * 63 = ?? 9 * 85 = ?? 16 * 35 = ?? 100 * 56 = ?? 67 * 9
= ?? 80 * 22 = ?? 6 * 70 = ?? 55 * 41 = ?? 76 * 72 = ?? 84 * 65 = ?? 83 * 23 = ?? 14 * 61 =
40 * 78 = ?? 38 * 47 = ?? 74 * 71 = ?? 67 * 40 = ?? 92 * 45 = ?? 47 * 2 = ?? 44 * 37 = ?? 6
* 21 = ?? 17 * 47 = ?? 18 * 16 = ?? 34 * 3 = ?? 85 * 10 = ?? 27 * 57 = ?? 13 * 83 = ?? 22 *
9 = ?? 41 * 7 = ?? 11 * 64 = ?? 40 * 72 = ?? 31 * 89 = ?? 29 * 89 = ?? 29 * 89 = ?? 16 * 47
Congratulations, mission 31 has been successfully completed!

While you are waiting, a bat flies by ...

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

Mission 31:

```
~/Castle/Main_building/Library/Merlin_s_office
[mission 32] $ ls -d grim* > Drawer/in
ink_and_scroll inventory.txt

~/Castle/Main_building/Library/Merlin_s_office
[mission 32] $ ls -d grim* > Drawer/inventory.txt

~/Castle/Main_building/Library/Merlin_s_office
[mission 32] $ gsh check

Congratulations, mission 32 has been successfully completed!

While you are waiting, a caterpillar crawls by ...

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

Mission 32:

```

~/Castle/Main_building/Library/Merlin_s_office
[mission 33] $ grep -l -i gsh grimoire_* 2>error.txt
grimoire_AbGiZylhrid
grimoire_BPTjEBQUCgIrlBgwR
grimoire_DjydDLtZN
grimoire_EfZmMUroI
grimoire_HAisGLKlAJfuWocPgEMwLeCbmT
grimoire_IoUmnOxvuIglUrMbbFM
grimoire_iVSQXIapbpUiDa
grimoire_IxJcfUlqM
grimoire_LBFhrAxoaEJAdojrmxJsRgJSwpjsi
grimoire_lOvLadcJDjWO
grimoire_lYQFLeOmmjQzfJFXSWukLoyvwpRMAR
grimoire_LYgGvwiAHepjagurDUp
grimoire_mQEAzuxxiRsRlejlKyScUptPX
grimoire_nMQDjqVmfitraa
grimoire_NPfAbgVXPDHdOWWZmJUUyVmMXc
grimoire_NUvaTdZedqVdVhelswSd
grimoire_OhzNsRNQ
grimoire_orjrsjsvxyDBPtxkGVkc
grimoire_OSSUvATHIIrrywLN
grimoire_qdZBcBPCbnzHmn
grimoire_rwOucpiNcyLTv
grimoire_rZWRTB1lE
grimoire_uiEWhxYLCIHgYpEjskETAAXAMSCp
grimoire_VrBYBraODJrAfBAxkuhT
grimoire_VusyjymITStFiSuvFbPfjHLBzH
grimoire_xWVLhsjVQLhGYKsvIcnXoWourTWUIC
grimoire_YbXGWXvpvVniWtyvRjyX
grimoire_zRuKiwhuqAttJbSMUfRNMYhtcFds
grimoire_zvMJVHXQzs

~/Castle/Main_building/Library/Merlin_s_office
[mission 33] $ gsh check

Congratulations, mission 33 has been successfully completed!

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

```

## Mission 33:

### Mission 34:

```

[mission 34] $ cat 2
wjkaozkaAwZDuhQjjggkYYPyDDPEZpyUamkGWUiBMfpUhcLpnRzSablsjAeubEugYsPQErfOhwLlbQazrCpvbOqDbkCpyDMwuiNJcXygrePFwXokQhEWbwiQkPEDJTKdoXegCThDmYWQmfPpbGFBsJpHgvHzxJCTcTZLZ0zJMLyStrSPiVzfLlwJbgiGmCOzd

~/Castle/Observatory
[mission 34] $ gsh check < 2
What is the secret key?
Congratulations, mission 34 has been successfully completed!

```

To complete this mission, you have to give the secret key \*\*using a file redirection\*\*.

The command is correct, but you need to use a redirection to complete this mission!

Bloc Num attivo

```

~/Castle/Main_building/Throne_room
[mission 35] $ chmod u+x Kings_quarter/

~/Castle/Main_building/Throne_room
[mission 35] $ ls -l
total 4
drwxr--r-- 2 kali kali 4096 Dec 15 13:33 Kings_quarter/

~/Castle/Main_building/Throne_room
[mission 35] $ cd Kings_quarter/

~/Castle/Main_building/Throne_room/Kings_quarter
[mission 35] $ ls

~/Castle/Main_building/Throne_room/Kings_quarter
[mission 35] $ gsh check

Congratulations, mission 35 has been successfully completed!

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

```

## Mission 35:

```
~/Castle/Main_building/Throne_room/Kings_quarter
[mission 36] $ cat .secret_note
6141032015

~/Castle/Main_building/Throne_room/Kings_quarter
[mission 36] $ ghs check
Command 'ghs' not found, did you mean:
  command 'gs' from deb ghostscript
  command 'gh' from deb gh
  command 'gjs' from deb gjs
  command 'ghb' from deb handbrake
  command 'gss' from deb libgss-dev
  command 'ghc' from deb ghc
Try: sudo apt install <deb name>

~/Castle/Main_building/Throne_room/Kings_quarter
[mission 36] $ gsh check
What's the combination to open the King's safe? 6141032015

Congratulations, mission 36 has been successfully completed!

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

Mission 36:

```

~/Castle/Main_building/Throne_room/Safe
[mission 37] $ cat crown
      _.-+._          jgs
(^\^/\^)
\@*@\*@\/
{_469_}

~/Castle/Main_building/Throne_room/Safe
[mission 37] $ ls
crown

~/Castle/Main_building/Throne_room/Safe
[mission 37] $ ls -la
total 12
drwx—— 2 kali kali 4096 Dec 17 06:07 .
drwxr-xr-x 4 kali kali 4096 Dec 17 06:07 ..
-rwx—— 1 kali kali   48 Dec 17 06:07 crown

~/Castle/Main_building/Throne_room/Safe
[mission 37] $ cd ..

~/Castle/Main_building/Throne_room
[mission 37] $ ls -la
total 16
drwxr-xr-x 4 kali kali 4096 Dec 17 06:07 .
drwxr-xr-x 4 kali kali 4096 Dec 15 13:33 ..
drwxr-xr-x 2 kali kali 4096 Dec 17 06:04 Kings_quarter/
drwx—— 2 kali kali 4096 Dec 17 06:07 Safe/

~/Castle/Main_building/Throne_room
[mission 37] $ cp Safe/crown ..../..../Forest/Hut/Chest/

~/Castle/Main_building/Throne_room
[mission 37] $ gsh check
What are the 3 digits inscribed on the base of the crown? 469

Congratulations, mission 37 has been successfully completed!

```

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

Mission 37:

```

~/Garden/Maze
[mission 38] $ mv 214779215f8ccc8e720027c129/ae0a29a0f481b7d05bd45c/1e05074489/51315 ..../Forest/Hut/Chest/
~/Garden/Maze
[mission 38] $ gsh check

Congratulations, mission 38 has been successfully completed!

```

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

Mission 38:

## Missione 39:

```
~/Garden/Maze
[mission 39] $ find -type f | xargs grep -l dai

~/Garden/Maze
[mission 39] $ find -type f | xargs grep -l dia
./279095e1042bc8aed59c7e2706e52b/b245566c52da931d5b2d/724fb24aa9df2bf

~/Garden/Maze
[mission 39] $ cat 279095e1042bc8aed59c7e2706e52b/b245566c52da931d5b2d/724fb24aa9df2bf
724fb24aa9df2bf diamond 85822cb446c0bd7c5d4a2e69f62fddc0f49cfefc

~/Garden/Maze
[mission 39] $ find -type f | xargs grep -l dia
./279095e1042bc8aed59c7e2706e52b/b245566c52da931d5b2d/724fb24aa9df2bf

~/Garden/Maze
[mission 39] $ mv 279095e1042bc8aed59c7e2706e52b/b245566c52da931d5b2d/724fb24aa9df2bf ..../Forest/Hut/Chest/

~/Garden/Maze
[mission 39] $ gsh check

Congratulations, mission 39 has been successfully completed!
```

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

```
(0)
~/Stall
[mission 40] $ ls | xargs grep -l "King"
90e95b3624f8_s_c_r_o_l_l_90e95b3624f8920f
(1)
~/Stall
[mission 40] $ cat 90e | grep "the King"
90e74eaa6d68_boring_object_90e74eaa6d68028c 90e95b3624f8_s_c_r_o_l_l_90e95b3624f8920f
(1)
~/Stall
[mission 40] $ cat 90e95b3624f8_s_c_r_o_l_l_90e95b3624f8920f | grep "the King"
the King bought an apple for 3 coppers -- PAID.
the King bought a chackal for 3 coppers -- PAID.
the King bought a stool for 4 coppers -- PAID.
the King bought a leather bag for 4 coppers.
the King bought a goat for 2 coppers.
the King bought a bottle of cider for 2 coppers.
the King bought a chicken for 2 coppers -- PAID.
the King bought a bag flour for 2 coppers.
the King bought a belt for 2 coppers.
the King bought a goat for 4 coppers -- PAID.
the King bought a bottle of cider for 5 coppers.
(2)
~/Stall
[mission 40] $ gsh check
How much does the king owe? 17

Congratulations, mission 40 has been successfully completed!
```

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

## Missione 40:

```
(0)
~/Stall
[mission 41] $ ls | xargs grep -l -i PAID | xargs cat | grep -v PAID | wc
      50      426     2406
(1)
~/Stall
[mission 41] $ gsh check
How many unpaid items are there? 50

Congratulations, mission 41 has been successfully completed!
```

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

Missione 41:

```
~/Castle/Main_building  
[mission 42] $ gsh check  
What's the key that will make Merlin's chest to appear?  
wwrh
```

```
Congratulations, mission 42 has been successfully completed!
```

```
CONGRATULATIONS!
```

```
You have finished all the missions.
```

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

Mission 42:

### Mission 43:

```
~/Castle/Main_building  
[mission 43] $ gsh goal
```

Congratulations!

You have finished all the missions.

You can now quit GameShell, or go back to some old missions.

Use ``gsh HELP`` to get a list of all GameShell commands.

The commands ``gsh index`` and ``gsh goto N`` are particularly interesting.

Note: the admin password has been changed to 'qwerty'.

# **Cybersecurity Analyst 2023**