

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

```

```
[mission 2] $
```

```
[mission 2] $ ls
[mission 2] $ cd
[mission 2] $ ls
Castle Forest Garden Mountain Stall
[mission 2] $ cd Castle/
Cellar/ Great hall/ Main_building/ Main_tower/ Observatory/
[mission 2] $ cd Castle/Cellar/
[mission 2] $ gsh check
```

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

```
[mission 3] $ █
```

```
[mission 3] $ cd
[mission 3] $ cd
.bashrc  Castle/  Forest/  Garden/  .lessshst  Mountain/  Stall/
[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
```

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] $
```

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

```
~  
[mission 4] $ ls  
Castle Forest Garden Mountain Stall
```

```
~  
[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] $ █
```

```
| Remark: ``rm`` is an abbreviation for "remove". |  
| | |  
( )=(, | @=( )
```

```
~/Forest/Hut  
[mission 5] $ cd
```

```
~  
[mission 5] $ ls  
Castle Forest Garden Mountain Stall
```

```
~  
[mission 5] $ cd Castle/  
Cellar/ Great_hall/ Main_building/ Main_tower/ Observatory/
```

```
~  
[mission 5] $ cd Castle/Cellar/
```

```
~/Castle/Cellar  
[mission 5] $ ls  
barrel_of_apples bat_1 bat_2 spider_1 spider_2 spider_3
```

```
~/Castle/Cellar  
[mission 5] $ cd spider_1  
bash: cd: spider_1: Not a directory
```

```
~/Castle/Cellar  
[mission 5] $ rm spider_1
```

```
~/Castle/Cellar  
[mission 5] $ rm spider_2
```

```
~/Castle/Cellar  
[mission 5] $ rm spider_3
```

```
~/Castle/Cellar  
[mission 5] $ gsh check
```

Congratulations, mission 5 has been successfully completed!

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

```
~/Castle/Cellar  
[mission 6] $ █
```

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

~/Garden
[mission 6] $ cd ..

~
[mission 6] $ mv Garden/coin_1 Forest/Hut/Chest

~
[mission 6] $ ls
Castle Forest Garden Mountain Stall

~
[mission 6] $ mv Garden/coin_2 Forest/Hut/Chest

~
[mission 6] $ mv Garden/coin_3 Forest/Hut/Chest

~
[mission 6] $ gsh check

Congratulations, mission 6 has been successfully completed!
```

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

```
~
[mission 7] $ █
```

```
~
[mission 7] $ cd

~
[mission 7] $ cd Forest/

~/Forest
[mission 7] $ cd ..

~
[mission 7] $ cd Garden/

~/Garden
[mission 7] $ ls -a
. .. .20516_coin_1 .37357_coin_3 .7557_coin_2 Flower_garden Maze Shed

~/Garden
[mission 7] $ cd ..

~
[mission 7] $ mv Garden/.20516_coin_1 Forest/Hut/Chest/

~
[mission 7] $ mv Garden/.37357_coin_3 Forest/Hut/Chest/

~
[mission 7] $ mv Garden/.7557_coin_2 Forest/Hut/Chest/

~
[mission 7] $ gsh check

Congratulations, mission 7 has been successfully completed!
```

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

```
~
[mission 8] $ █
```

```

/home/kali/gameshell
[mission 8] $ cd

~

[mission 8] $ ls
Castle Forest Garden Mountain Stall

~

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

~

[mission 8] $ rm Castle/Cellar/
10072_spider_22 13747_spider_35 20848_spider_36 24288_spider_10 26042_spider_45 30975_spider_31 5245_spider_1
10363_spider_19 14603_spider_38 21118_spider_18 24302_spider_5 26235_spider_50 31180_spider_32 5698_spider_16
10468_spider_7 16583_spider_33 21217_spider_26 24644_spider_2 27428_bat_4 31708_spider_21 7525_spider_49
10980_spider_15 19454_spider_43 21444_spider_30 25212_spider_46 29262_bat_5 32149_bat_2 7739_spider_23
11103_spider_17 19621_spider_28 22308_spider_8 25225_spider_9 29367_spider_11 32453_spider_48 8704_spider_27
119_spider_39 19753_spider_34 23176_spider_12 25870_spider_6 30285_spider_47 3368_spider_13 8779_bat_3
12670_bat_1 19845_spider_14 24102_spider_44 25946_spider_25 30553_spider_37 3651_spider_4 9473_spider_24
13012_spider_20 20354_spider_40 24135_spider_41 25964_spider_3 30583_spider_29 4001_spider_42 barrel_of_apples

~

[mission 8] $ rm Castle/Cellar/10
10072_spider_22 10363_spider_19 10468_spider_7 10980_spider_15

~

[mission 8] $ rm Castle/Cellar/*_spider_*

~

[mission 8] $ gsh check

Congratulations, mission 8 has been successfully completed!

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

~


[mission 9] $ █

```

```
[mission 9] $ cd
~
[mission 9] $ rm Castle/Cellar/
.10093_spider_2 .13772_spider_23 .21577_spider_26 .27072_bat_1 .3125_spider_38 .4129_spider_15 8779_bat_3
.10172_spider_20 .13942_spider_31 .23228_spider_27 .27214_spider_47 .31386_spider_22 .4595_spider_14 .9230_spider_45
.10444_spider_3 .16358_spider_18 .24649_spider_40 27428_bat_4 .31450_spider_44 .6018_spider_21 .9665_spider_42
.11023_spider_36 .16561_spider_29 .25022_spider_35 .27577_spider_8 .32001_spider_39 .6213_spider_32 .9719_bat_2
.1149_spider_37 .18120_bat_3 .25201_bat_5 .28243_spider_11 32149_bat_2 .6253_spider_34 .9775_spider_13
.11604_spider_46 .18200_spider_5 .25246_spider_30 .28428_spider_1 .32500_bat_4 .6384_spider_6 .9844_spider_33
.12664_spider_10 .2028_spider_19 .25389_spider_4 .28582_spider_50 .32660_spider_17 .6489_spider_7 barrel_of_apples
12670_bat_1 .20358_spider_49 .25470_spider_16 29262_bat_5 .3570_spider_24 .6957_spider_43
.12813_spider_28 .20952_spider_25 .26691_spider_9 .29425_spider_12 .3697_spider_48 .69_spider_41
~
[mission 9] $ rm Castle/Cellar/.*_spider.*
~
[mission 9] $ gsh check
Congratulations, mission 9 has been successfully completed!

Congratulations !

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.
+-----+

Mission goal

You have taken a fancy to the four standards in the great hall of the castle. As stealing them would not go unnoticed, put a copy (same name, same content) of each in your chest.

Useful commands

cp FILE DIRNAME
Copy the file to the directory.
Remark: ``cp`` is an abbreviation of "copy".

~/Castle

[mission 10] \$ cd

[mission 10] \$ ls

Castle/ Forest/ Garden/ Mountain/ Stall/

[mission 10] \$ cp Castle/

Cellar/ Great_hall/ Main_building/ Main_tower/ Observatory/

[mission 10] \$ cp Castle/Great_hall/

53223_suit_of_armour 62583_stag_head standard_2 standard_4

59390_decorative_shield standard_1 standard_3

[mission 10] \$ cp Castle/Great_hall/standard_* Forest/Hut/Chest/

[mission 10] \$ gsh check

Congratulations, mission 10 has been successfully completed!

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

[mission 11] \$ cd

[mission 11] \$ cp Castle/Great_hall/

10399_tapestry_08 30460_tapestry_09 49820_tapestry_07 61924_tapestry_05 standard_4

24350_tapestry_01 33611_decorative_shield 57081_tapestry_10 standard_1

29135_tapestry_03 43002_tapestry_04 57967_tapestry_02 standard_2

29141_stag_head 45001_tapestry_06 61001_suit_of_armour standard_3

[mission 11] \$ cp Castle/Great_hall/*_tapestry_* Forest/Hut/Chest/

[mission 11] \$ gsh check

Congratulations, mission 11 has been successfully completed!

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

[mission 12] \$ █

```
~
[mission 12] $ cp Castle/Main_tower/First_floor/
painting_dxBWovMH painting_oIQPjPjEM painting_WKCQVbsl Second_floor/

~
[mission 12] $ ls -l Castle/Main_tower/First_floor/
total 16
-rw-r--r-- 1 kali kali 1054 Jun 26 2013 painting_dxBWovMH
-rw-r--r-- 1 kali kali 1502 May 24 1984 painting_oIQPjPjEM
-rw-r--r-- 1 kali kali 1455 Jan 27 2002 painting_WKCQVbsl
drwxr-xr-x 3 kali kali 4096 Feb 1 14:14 Second_floor/

~
[mission 12] $ cp Castle/Main_tower/First_floor/painting_oIQPjPjEM
.bashrc Castle/ Forest/ Garden/ .lessht Mountain/ Stall/

~
[mission 12] $ cp Castle/Main_tower/First_floor/painting_oIQPjPjEM Forest/Hut/Chest/

~
[mission 12] $ gsh check

Congratulations, mission 12 has been successfully completed!

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

~
[mission 13] $ █
```

January							February							March						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
						1			1	2	3	4	5			1	2	3	4	5
2	3	4	5	6	7	8	6	7	8	9	10	11	12	6	7	8	9	10	11	12
9	10	11	12	13	14	15	13	14	15	16	17	18	19	13	14	15	16	17	18	19
16	17	18	19	20	21	22	20	21	22	23	24	25	26	20	21	22	23	24	25	26
23	24	25	26	27	28	29	27	28						27	28	29	30	31		
30	31																			

April							May							June						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
					1	2	1	2	3	4	5	6	7				1	2	3	4
3	4	5	6	7	8	9	8	9	10	11	12	13	14	5	6	7	8	9	10	11
10	11	12	13	14	15	16	15	16	17	18	19	20	21	12	13	14	15	16	17	18
17	18	19	20	21	22	23	22	23	24	25	26	27	28	19	20	21	22	23	24	25
24	25	26	27	28	29	30	29	30	31					26	27	28	29	30		

July							August							September						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
					1	2	1	2	3	4	5	6					1	2	3	
3	4	5	6	7	8	9	7	8	9	10	11	12	13	4	5	6	7	8	9	10
10	11	12	13	14	15	16	14	15	16	17	18	19	20	11	12	13	14	15	16	17
17	18	19	20	21	22	23	21	22	23	24	25	26	27	18	19	20	21	22	23	24
24	25	26	27	28	29	30	28	29	30	31				25	26	27	28	29	30	
31																				

October							November							December						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
						1			1	2	3	4	5					1	2	3
2	3	4	5	6	7	8	6	7	8	9	10	11	12	4	5	6	7	8	9	10
9	10	11	12	13	14	15	13	14	15	16	17	18	19	11	12	13	14	15	16	17
16	17	18	19	20	21	22	20	21	22	23	24	25	26	18	19	20	21	22	23	24
23	24	25	26	27	28	29	27	28	29	30				25	26	27	28	29	30	31
30	31																			

~/Castle/Observatory

[mission 13] \$ gsh check

What was the day of the week for the 01-22-1938?

- 1 : Monday
- 2 : Tuesday
- 3 : Wednesday
- 4 : Thursday
- 5 : Friday
- 6 : Saturday
- 7 : Sunday

Your answer: 6

Congratulations, mission 13 has been successfully completed!

```

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

```



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

```
~/Castle/Observatory
[mission 14] $ alias la='ls -A'
```

```
~/Castle/Observatory
[mission 14] $ la
.nice_rock  star_chart
```

```
~/Castle/Observatory
[mission 14] $ gsh check
```

Congratulations, mission 14 has been successfully completed!

```
~/Castle/Observatory
[mission 15] $ cd
```

```
~
[mission 15] $ cd
.bashrc  Castle/  Forest/  Garden/  .lessht  Mountain/  Stall/
```

```
~
[mission 15] $ nano Forest/Hut/Chest/journal.txt
```

```
~
[mission 15] $ gsh check
```

Congratulations, mission 15 has been successfully completed!

```
[mission 16] $ journal
[mission 16] $ alias journal='nano ~/Forest/Hut/Chest/journal.txt'
[mission 16] $ journal
[mission 16] $ gsh check
```

Congratulations, mission 16 has been successfully completed!



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).

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

```
[mission 17] $
```

```
| to get the list of "gsh" commands.
+-----+
|
```

```
~/Castle/Cellar
[mission 17] $ cd .
./
.. /
.18120_bat_3
.25201_bat_5
.27072_bat_1
.32500_bat_4
.9719_bat_2
.Lair_of_the_spider_queen WHYkUYErHLzPWDzU ScUpoIrXGUDZVbpj/
```

```
~/Castle/Cellar
[mission 17] $ cd .
./
.. /
.18120_bat_3
.25201_bat_5
.27072_bat_1
.32500_bat_4
.9719_bat_2
.Lair_of_the_spider_queen WHYkUYErHLzPWDzU ScUpoIrXGUDZVbpj/
```

```
~/Castle/Cellar
[mission 17] $ cd .Lair_of_the_spider_queen\ WHYkUYErHLzPWDzU ScUpoIrXGUDZVbpj/
```

```
~/Castle/Cellar/.Lair_of_the_spider_queen WHYkUYErHLzPWDzU ScUpoIrXGUDZVbpj
[mission 17] $ rm
jzgAtLjCNutPwMxu_baby_bat_qatlkl0ueujttNu rslQqmziiSrntUMK_spider_queen_LQdzJUdsmXtGSvJW
```

```
~/Castle/Cellar/.Lair_of_the_spider_queen WHYkUYErHLzPWDzU ScUpoIrXGUDZVbpj
[mission 17] $ rm
jzgAtLjCNutPwMxu_baby_bat_qatlkl0ueujttNu rslQqmziiSrntUMK_spider_queen_LQdzJUdsmXtGSvJW
```

```
~/Castle/Cellar/.Lair_of_the_spider_queen WHYkUYErHLzPWDzU ScUpoIrXGUDZVbpj
[mission 17] $ rm rslQqmziiSrntUMK_spider_queen_LQdzJUdsmXtGSvJW
```

```
~/Castle/Cellar/.Lair_of_the_spider_queen WHYkUYErHLzPWDzU ScUpoIrXGUDZVbpj
[mission 17] $ gsh check
Perfect, it took you only 12 seconds to complete this mission!
```

Congratulations, mission 17 has been successfully completed!

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

```
~/Castle/Cellar/.Lair_of_the_spider_queen WHYkUYErHLzPWDzU ScUpoIrXGUDZVbpj
[mission 18] $
```



```

~/Garden/Maze
[mission 21] $ find . -type f -iname *gold*
./bf881c66024fb74bb7d3c1e43d077e8/6438ca0023c12f/43017cd2af0ab697de8174d/Gold_Coin_2
./bf881c66024fb74bb7d3c1e43d077e8/6438ca0023c12f/24ad0b026a445578e4495aa8672a08/gold_coin_1

~/Garden/Maze
[mission 21] $ mv ./b
b2d19533fd136/          be55a60e0eec62d6b0543d295/          bf881c66024fb74bb7d3c1e43d077e8/

~/Garden/Maze
[mission 21] $ mv ./b
b2d19533fd136/          be55a60e0eec62d6b0543d295/          bf881c66024fb74bb7d3c1e43d077e8/

~/Garden/Maze
[mission 21] $ mv ./bf881c66024fb74bb7d3c1e43d077e8/6438ca0023c12f/43
43017cd2af0ab697de8174d/ 433e8e92ca36be1286253038/

~/Garden/Maze
[mission 21] $ mv ./bf881c66024fb74bb7d3c1e43d077e8/6438ca0023c12f/43017cd2af0ab697de8174d/Gold_Coin_2 ~/Forest/Hut/Chest/

~/Garden/Maze
[mission 21] $ mv ./bf881c66024fb74bb7d3c1e43d077e8/6438ca0023c12f/24ad0b026a445578e4495aa8672a08/gold_coin_1 ~/Forest/Hut/Chest/

~/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. | |         |
| +-----+                         | +-----+
|                                     |

~/Garden/Maze
[mission 22] $

```

```

~/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!

```

```
~/Mountain/Cave
[mission 23] $ tail -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. |
+-----+
|
```

```
~/Mountain/Cave
[mission 24] $ █
```

```
~/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. |
+-----+
|
```



```
~/Mountain/Cave
[mission 25] $ cat Book_of_potions/page_03 Book_of_potions/page_04 | tail -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!

```
~/Mountain/Cave
[mission 26] $ head -6 Book_of_potions/page_13 | tail -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. |
--+-----+--
| |
```



```

~
[mission 27] $

                                *#0*
                                0_**/~
                                !$-#

kil

                                *#0*
                                0_**/~
                                !$-#

1261

                                *#0*
                                0_**/~
                                !$-#

50
Command 'kil' not found, did you mean:
  command 'pil' from deb picolisp
  command 'kig' from deb kig
  command 'kic' from deb kic
  command 'kill' from deb procps
  command 'cil' from deb cil
  command 'kal' from deb kalibrate-rtl
  command 'kile' from deb kile
  command 'uil' from deb uil
Try: sudo apt install <deb name>

~
[mission 27] $

                                *#0*
                                0_**/~
                                !$-#

kill 126150

~
[mission 27] $ gsh check

Congratulations, mission 27 has been successfully completed!

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

~
[mission 28] $ █

```

```
~
[mission 28] $ PS
PS: command not found
```

```
~
[mission 28] $ ps
  PID TTY          TIME CMD
 124921 pts/1    00:00:00 zsh
  125219 pts/1    00:00:00 bash
 125306 pts/1    00:00:00 bash
 135913 pts/1    00:00:00 spell
 136149 pts/1    00:00:00 spell
 136216 pts/1    00:00:00 ps
```

```
~
[mission 28] $ kill -s K
      *#@*
      5_**/~
      !$-#
```

```
      *#@*
      5_**/~
      !$-#
```

```
ILL 135913
```

```
~
[mission 28] $ kill
      *#@*
      5_**/~
      !$-#
```

```
-s KILL 136149
```

```
~
[mission 28] $ gsh check
```

```
Congratulations, mission 28 has been successfully completed!
```

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

```
~
[mission 29] $ █
```

```
~/Castle/Cellar
[mission 29] $ kill -s TERM 199121 199122 199123
```

```
~/Castle/Cellar
[mission 29] $ rm -v *coal
removed '13955_coal'
removed '14948_coal'
removed '1525_coal'
removed '15512_coal'
removed '15768_coal'
removed '19753_coal'
removed '20055_coal'
removed '20573_coal'
removed '22141_coal'
removed '22395_coal'
removed '22457_coal'
removed '2260_coal'
removed '26441_coal'
removed '26507_coal'
removed '26607_coal'
removed '27109_coal'
removed '28971_coal'
removed '29876_coal'
removed '35306_coal'
removed '35964_coal'
removed '38451_coal'
removed '3931_coal'
removed '41679_coal'
removed '44678_coal'
removed '5109_coal'
removed '53343_coal'
removed '5346_coal'
removed '54563_coal'
removed '56607_coal'
removed '57432_coal'
removed '58946_coal'
removed '60485_coal'
removed '64578_coal'
removed '65157_coal'
removed '65311_coal'
removed '65412_coal'
removed '6643_coal'
removed '970_coal'
```

```
~/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.
--+-----+--
|
```

```
~/Castle/Cellar
[mission 30] $ gsh check
26 + 63 = ?? 89
42 + 39 = ?? 81
16 + 7 = ?? 23
15 + 53 = ?? 68
16 + 85 = ?? 101
```

Congratulations, mission 30 has been successfully completed!

4743
550
276
9400
946
216
558
946
44
1264
2580
7700
1269
2158
1380
4845
468
3280
4560
168
2964
524
5529
2145
2960
4959
130
1050
1940
1620
704
3965
296
7200
3800
2241
1880

8011 * 3 = ?? 44 * 4 = ?? 95 * 30 = ?? 39 * 89 = ?? 22 * 31 = ?? 39 * 54 = ?? 56 * 36 = ?? 11 * 18 = ?? 15 * 8 = ?? 93 * 82 = ?? 76 *
16 = ?? 1 * 59 = ?? 79 * 66 = ?? 90 * 94 = ?? 19 * 34 = ?? 4 * 61 = ?? 3 * 33 = ?? 88 * 51 = ?? 19 * 66 = ?? 22 * 53 = ?? 2 * 33 = ??
2 * 88 = ?? 85 * 86 = ?? 36 * 88 = ?? 52 * 2 = ?? 66 * 79 = ?? 60 * 38 = ?? 13 * 29 = ?? 13 * 35 = ?? 48 * 91 = ?? 74 * 70 = ?? 21 * 1
5 = ?? 47 * 88 = ?? 28 * 73 = ?? 13 * 53 = ?? 17 * 35 = ?? 17 * 5 = ?? 86 * 49 = ?? 62 * 49 = ?? 2 * 89 = ?? 98 * 95 = ?? 57 * 48 = ??
67 * 30 = ?? 52 * 79 = ?? 4 * 7 = ?? 89 * 57 = ?? 28 * 40 = ?? 90 * 51 = ?? 97 * 53 = ?? 50 * 96 = ?? 40 * 7 = ?? 35 * 90 = ?? 87 * 4
1 = ?? 87 * 64 = ?? 7 * 91 = ?? 52 * 4 = ?? 52 * 71 = ?? 51 * 98 = ?? 57 * 29 = ?? 15 * 29 = ?? 96 * 9 = ?? 93 * 51 = ?? 50 * 13 = ??
5 * 46 = ?? 100 * 94 = ?? 11 * 86 = ?? 4 * 54 = ?? 31 * 18 = ?? 43 * 22 = ?? 4 * 11 = ?? 79 * 16 = ?? 86 * 30 = ?? 100 * 77 = ?? 27 *
47 = ?? 26 * 83 = ?? 92 * 15 = ?? 57 * 85 = ?? 36 * 13 = ?? 41 * 80 = ?? 80 * 57 = ?? 12 * 14 = ?? 38 * 78 = ?? 78 * 8 = ?? 57 * 97 =
?? 55 * 39 = ?? 37 * 80 = ?? 57 * 87 = ?? 13 * 10 = ?? 30 * 35 = ?? 20 * 97 = ?? 30 * 54 = ?? 88 * 8 = ?? 65 * 61 = ?? 37 * 8 = ?? 72
* 100 = ?? 50 * 76 = ?? 83 * 27 = ?? 40 * 47 = ?? 89 * 9 = ??

Congratulations, mission 31 has been successfully completed!

While you are waiting, you see a fish swimming in circles...

Merlin's old spell books are kept in his office, in the library. You need to save a list of all those spell books (and nothing else) in a file called "inventory.txt", in the drawer...

Useful commands

COMMAND > FILE

Send the command's output to a file instead of printing it on the screen.

less FILE

display the content of a file, one page at a time

Important keybindings are

q	quit
Space	scroll down one page
/ STRING	search for a string
n	go to the next occurrence of the search string

ls FILE1 ... FILEn

Show the list of files given as arguments.

This is particularly useful if you use shell patterns with wildcards.

```
~/Castle/Main_building/Library/Merlin_s_office
[mission 32] $ ls grimoire_* > nano Drawer/invenotry.txt
ls: cannot access 'Drawer/invenotry.txt': No such file or directory

~/Castle/Main_building/Library/Merlin_s_office
[mission 32] $ cd Drawer/

~/Castle/Main_building/Library/Merlin_s_office/Drawer
[mission 32] $ ls
link_and_scroll  inventory.txt

~/Castle/Main_building/Library/Merlin_s_office/Drawer
[mission 32] $ nano inventory.txt

~/Castle/Main_building/Library/Merlin_s_office/Drawer
[mission 32] $ ls grimoire_* > Drawer/invenotry.txt
bash: Drawer/invenotry.txt: No such file or directory

~/Castle/Main_building/Library/Merlin_s_office/Drawer
[mission 32] $ ls grimoire_* > Drawer/inventory.txt
bash: Drawer/inventory.txt: No such file or directory

~/Castle/Main_building/Library/Merlin_s_office/Drawer
[mission 32] $ cd ..

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

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

Congratulations, mission 32 has been successfully completed!
```

```
~/Castle/Main_building/Library/Merlin_s_office
[mission 33] $ grep -l -i gsh grimoire_* 2>/dev/null
grimoire_AULNfIsigCiuPLSwf
grimoire_BZauCciJ
grimoire_dahhpguvEbKkpCtqwEuBuOfjyWtwyNQ
grimoire_DeFSdzxZSkLTdLsmLINiVTsRlW
grimoire_EmFQzEQgC
grimoire_IVxhFMtys
grimoire_lRepzQomZwjMeWWSURCelwXlQhpE
grimoire_lYyvsVhTnhBjTPTozjJcgot
grimoire_niLkcuTluIdvoHOTZThBvf
grimoire_nlFMyIgtBStHoByDXFHJGRFapMfhg
grimoire_PyLGhCKgGCgxEFrZHSuo
grimoire_RupbRGHnoPqDxOUABWsQceEm
grimoire_SKzctLUS
grimoire_SUmpaFqrmLWxpDBijh
grimoire_thPRsHXpDOxeTer
grimoire_VHwKnaXFtSLjJjgeCXLWexCy
grimoire_XeyDbnDCEnbaQyPyfIKsZfcGWcoI
grimoire_XieKQlpvOiSGyIDuKUg
grimoire_xWrSYeJNQyBnUZsbQnHJtdAOEjmMAfz
grimoire_YsENckwFtYHsXtxmwDvxlygprcGk
grimoire_yXcXrmcqcETiwhRrgDXRDkwIWZ
grimoire_yxStuYhzMoy
grimoire_yyhfJhfmBOBqMacNncGUvhdVyrvpti
grimoire_zTuhtszjvXgyuazZBTniyziU

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

Congratulations, mission 33 has been successfully completed!
```

```
~/Castle/Observatory
[mission 34] $ gc < merlin2.txt
Error: <stdin>: syntax error in line 1 near 'nMESIIfhKJgtymwOrmqExzKjYEiKOKIICyJApoeIpUGUFerOvKkGIViTLJESSONFKKHSJTocJkwXhjNhPRXrHRKoPHCcMoVsrYnIqXQzHrzOfDWPewCpXiTFkSFrrhBgFtsfymmpudtYACggSuYWWgMpWsPLaThkPkqWDPVbkDRLGXdhaFNhAXXrasvMZfynswfSPtz'
```

```
~/Castle/Observatory
[mission 34] $ gsh check
What is the secret key? nMESIIfhKJgtymwOrmqExzKjYEiKOKIICyJApoeIpUGUFerOvKkGIViTLJESSONFKKHSJTocJkwXhjNhPRXrHRKoPHCcMoVsrYnIqXQzHrzOfDWPewCpXiTFkSFrrhBgFtsfymmpudtYACggSuYWWgMpWsPLaThkPkqWDPVbkDRLGXdhaFNhAXXrasvMZfynswfSPtz
That's not the correct key!
```

Sorry, mission 34 hasn't been completed.

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

```
~/Castle/Observatory
[mission 34] $ gsh check < merlin2.txt
What is the secret key? That's not the correct key!
```

Sorry, mission 34 hasn't been completed.

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

```
~/Castle/Observatory
[mission 34] $ ./merlin < star_chart 2> merlin2.txt
THESECREKEYISONSTDERR
```

```
~/Castle/Observatory
[mission 34] $ gsh check < merlin2.txt
What is the secret key?
Congratulations, mission 34 has been successfully completed!
```



```
/Castle/Main_building/Throne_room
mission 35] $ chmod u rwx Kings_quarter/
chmod: invalid mode: 'u'
try 'chmod --help' for more information.

/Castle/Main_building/Throne_room
mission 35] $ chmod u+rwx Kings_quarter/
chmod: invalid mode: 'u+rwx'
try 'chmod --help' for more information.

/Castle/Main_building/Throne_room
mission 35] $ cd Kings_quarter/
bash: cd: Kings_quarter/: Permission denied

/Castle/Main_building/Throne_room
mission 35] $ ls -l
total 4
-rw-r--r-- 2 kali kali 4096 Feb  1 14:14 Kings_quarter/

/Castle/Main_building/Throne_room
mission 35] $ chmod a+rwx Kings_quarter/
chmod: invalid mode: 'a+rwx'
try 'chmod --help' for more information.

/Castle/Main_building/Throne_room
mission 35] $ chmod a+rwd Kings_quarter/
chmod: invalid mode: 'a+rwd'
try 'chmod --help' for more information.

/Castle/Main_building/Throne_room
mission 35] $ chmod u+rwx Kings_quarter/

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

/Castle/Main_building/Throne_room/Kings_quarter
mission 35] $ ghs check
command 'ghs' not found, did you mean:
  command 'gh' from deb gh
  command 'ghc' from deb ghc
  command 'gss' from deb libgss-dev
  command 'gs' from deb ghostscript
  command 'gjs' from deb gjs
  command 'ghb' from deb handbrake
try: sudo apt install <deb name>

/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. | |             |
| +-----+ +-----+               |
| |                                     |

/Castle/Main_building/Throne_room/Kings_quarter
mission 36] $
```

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

~/Castle/Main_building/Throne_room/Kings_quarter
[mission 36] $ ls -l
total 4
-rwxr--r-- 1 kali kali 11 Feb  1 18:33 note

~/Castle/Main_building/Throne_room/Kings_quarter
[mission 36] $ ls -a
./ ../ note .secret_note

~/Castle/Main_building/Throne_room/Kings_quarter
[mission 36] $ ls -l
total 4
-rwxr--r-- 1 kali kali 11 Feb  1 18:33 note

~/Castle/Main_building/Throne_room/Kings_quarter
[mission 36] $ ls -al
total 16
drwxr-xr-x 2 kali kali 4096 Feb  1 18:31 ./
drwxr-xr-x 3 kali kali 4096 Feb  1 14:14 ../
-rwxr--r-- 1 kali kali  11 Feb  1 18:33 note
-w----- 1 kali kali  11 Feb  1 18:33 .secret_note

~/Castle/Main_building/Throne_room/Kings_quarter
[mission 36] $ chmod u+rwx .secret_note

~/Castle/Main_building/Throne_room/Kings_quarter
[mission 36] $ cat .secret_note
4779861699

~/Castle/Main_building/Throne_room/Kings_quarter
[mission 36] $ gsh check
What's the combination to open the King's safe? 4779861699

Congratulations, mission 36 has been successfully completed!

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

~/Castle/Main_building/Throne_room/Kings_quarter
[mission 37] $ █
```

```
/Castle/Main_building/Throne_room/Safe
mission 37] $ ghs check
command 'ghs' not found, did you mean:
  command 'ghb' from deb handbrake
  command 'gjs' from deb gjs
  command 'gh' from deb gh
  command 'ghc' from deb ghc
  command 'gs' from deb ghostscript
  command 'gss' from deb libgss-dev
try: sudo apt install <deb name>

/Castle/Main_building/Throne_room/Safe
mission 37] $ gsh check
what are the 3 digits inscribed on the base of the crown? ^C

/Castle/Main_building/Throne_room/Safe
mission 37] $ cd

mission 37] $ cd Forest/Hut/Chest/

/Forest/Hut/Chest
mission 37] $ ls
0399_tapestry_08  43002_tapestry_04  57967_tapestry_02  coin_3      journal.txt      standard_1
4350_tapestry_01  45001_tapestry_06  61924_tapestry_05  crown       00000_copper_coin_00000  standard_2
9135_tapestry_03  49820_tapestry_07  coin_1             gold_coin_1  00000_silver_coin_00000  standard_3
0460_tapestry_09  57081_tapestry_10  coin_2             GoLD_CoiN_2  painting_oiQPJPeM      standard_4

/Forest/Hut/Chest
mission 37] $ cat crown
jgs
^+.^+.^+
^\/^\/^\/
\@*@\*@\
{ _325_ }

/Forest/Hut/Chest
mission 37] $ ghs check
command 'ghs' not found, did you mean:
  command 'gs' from deb ghostscript
  command 'ghc' from deb ghc
  command 'gh' from deb gh
  command 'gss' from deb libgss-dev
  command 'gjs' from deb gjs
  command 'ghb' from deb handbrake
try: sudo apt install <deb name>

/Forest/Hut/Chest
mission 37] $ gsh check
what are the 3 digits inscribed on the base of the crown? 325

congratulations, mission 37 has been successfully completed!

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

/Forest/Hut/Chest
mission 38] $
```

```

Garden/Maze
mission 38] $ mv
be7a17a6cf60eb5a8615d3cad8d/ 782f989c12533fcf62/ 8c0bf9f65aa9d6cbf7ebbc5964a/ c461c5edb/
286dc47e9b20a167b19cda8375/ 7c93f72620149a1235839bd6ce137e1/ 97c034bedc13e5753a5021a6/
b1eb332/ 87574e8479c/ a0d6f431188313e4bddaa70c/

Garden/Maze
mission 38] $ mv 73b1eb332/79b3e60edf8029a534fd639ee3/da
44894098368f756b407f5d55e9c/ da724884f5f9/

Garden/Maze
mission 38] $ mv 73b1eb332/79b3e60edf8029a534fd639ee3/da724884f5f9/50433
be7a17a6cf60eb5a8615d3cad8d/ 782f989c12533fcf62/ 8c0bf9f65aa9d6cbf7ebbc5964a/ c461c5edb/
286dc47e9b20a167b19cda8375/ 7c93f72620149a1235839bd6ce137e1/ 97c034bedc13e5753a5021a6/
b1eb332/ 87574e8479c/ a0d6f431188313e4bddaa70c/

Garden/Maze
mission 38] $ mv 73b1eb332/79b3e60edf8029a534fd639ee3/da724884f5f9/50433
be7a17a6cf60eb5a8615d3cad8d/ 782f989c12533fcf62/ 8c0bf9f65aa9d6cbf7ebbc5964a/ c461c5edb/
286dc47e9b20a167b19cda8375/ 7c93f72620149a1235839bd6ce137e1/ 97c034bedc13e5753a5021a6/
b1eb332/ 87574e8479c/ a0d6f431188313e4bddaa70c/

Garden/Maze
mission 38] $ mv ./73b1eb332/79b3e60edf8029a534fd639ee3/da724884f5f9/50433:50433 ruby 8d4bbcc97b4f68021e9798938712329197ad82ea ~/Fore
/Hut/Chest/
: cannot stat './73b1eb332/79b3e60edf8029a534fd639ee3/da724884f5f9/50433:50433': No such file or directory
: cannot stat 'ruby': No such file or directory
: cannot stat '8d4bbcc97b4f68021e9798938712329197ad82ea': No such file or directory

Garden/Maze
mission 38] $ mv ./73b1eb332/79b3e60edf8029a534fd639ee3/da724884f5f9/50433 ~/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. |
+-----+

Garden/Maze
mission 39] $ █

███ is particularly useful after a `|` redirection.

~/Garden/Maze
[mission 39] $ find . -type f -exec grep -l diamond '{}' \; | xargs mv -v -t ~/Forest/Hut/Chest/
renamed './95e43da1cfe32f65a88c1/b2a0e553cadf7ba/b95d6613' → '/home/kali/gameshell/World/Forest/Hut/Chest/b95d6613'

~/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)
~/Garden/Maze
[mission 40] $ █

```