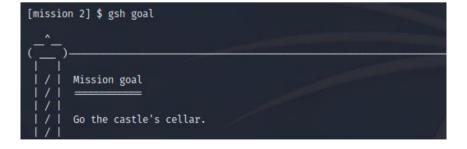


```
[mission 1] $ pwd
/home/kali/gameshell/World
[mission 1] $ ls
Castle Forest Garden Mountain Stall
[mission 1] $ cd Castle/
[mission 1] $ ls
Cellar Great_hall Main_building Main_tower Observatory
[mission 1] $ cd Main_tower/
[mission 1] $ ls
First_floor
[mission 1] $ cd First_floor/
[mission 1] $ ls
Second_floor
[mission 1] $ cd Second_floor/
[mission 1] $ ls
Top_of_the_tower
[mission 1] $ cd Top_of_the_tower/
[mission 1] $ ls
[mission 1] $ gsh check
Congratulations, mission 1 has been successfully completed!
```

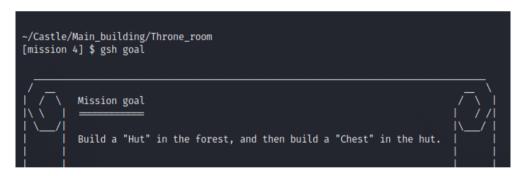


```
[mission 2] $ pwd
/home/kali/gameshell/World/Castle/Main_tower/First_floor/Second_floor/Top_of_the_tower
[mission 2] $ cd -
/home/kali/gameshell/World/Castle/Main_tower/First_floor/Second_floor
[mission 2] $ cd ../..
[mission 2] $ pwd
/home/kali/gameshell/World/Castle/Main_tower
[mission 2] $ ls
First_floor
[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] $ gsh check
Congratulations, mission 2 has been successfully completed!
```



```
[mission 3] $ cd
[mission 3] $ cd Castle/Main_building/Throne_room/
[mission 3] $ gsh check

Congratulations, mission 3 has been successfully completed!
```



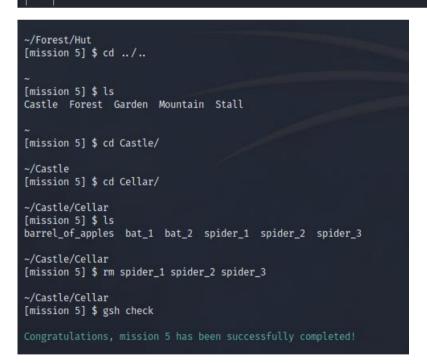
```
~/Castle/Main_building/Throne_room
[mission 4] $ cd ../../..
~
[mission 4] $ ls
Castle Forest Garden Mountain Stall
~
[mission 4] $ cd Forest/
~/Forest
[mission 4] $ mkdir Hut
~/Forest
[mission 4] $ cd Hut/
~/Forest/Hut
[mission 4] $ mkdir Chest
~/Forest/Hut
[mission 4] $ gsh check
Congratulations, mission 4 has been successfully completed!
```

~/Forest/Hut [mission 5] \$ gsh goal



Mission goal

Go back to the cellar and get rid of all the spiders. Leave the bats alone: they appear on the castle's coat of arms and are said to confer luck.



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



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.



```
~/Castle
[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 /home/kali/gameshell/World/Forest/Hut/Chest

~/Garden
[mission 6] $ mv coin_1 coin_2 coin_3 /home/kali/gameshell/World/Forest/Hut/Chest

~/Garden
[mission 6] $ gsh check

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

```
-/Garden
[mission 7] $ ls -la
total 32
drwxr-xr-x 5 kali kali 4096 Jul 16 13:06 .
drwxr-xr-x 7 kali kali 4096 Jul 16 13:07 ..
-rw-r-r-- 1 kali kali 47 Jul 16 13:06 .19684_coin_2
-rw-r--r-- 1 kali kali 47 Jul 16 13:06 .29434_coin_3
-rw-r--r-- 1 kali kali 47 Jul 16 13:06 .5265_coin_1
drwxr-xr-x 2 kali kali 4096 Jul 16 12:27 Flower_garden
drwxr-xr-x 2 kali kali 4096 Jul 16 12:27 Maze
drwxr-xr-x 2 kali kali 4096 Jul 16 12:27 Shed

-/Garden
[mission 7] $ mv .5265_coin_1 .19684_coin_2 .29434_coin_3 /home/kali/gameshell/World/Forest/Hut/Chest

-/Garden
[mission 7] $ gsh check

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

```
~/Castle/Cellar
[mission 8] $ rm *spider*

~/Castle/Cellar
[mission 8] $ ls
13529_bat_1 18474_bat_5 31361_bat_2 4594_bat_4 8597_bat_3 barrel_of_apples

~/Castle/Cellar
[mission 8] $ ls -a
. .. 13529_bat_1 18474_bat_5 31361_bat_2 4594_bat_4 8597_bat_3 barrel_of_apples

~/Castle/Cellar
[mission 8] $ gsh check

Congratulations, mission 8 has been successfully completed!
```

```
~/Castle/Cellar
[mission 9] $ rm .*spider*

~/Castle/Cellar
[mission 9] $ ls

13529_bat_1 18474_bat_5 31361_bat_2 4594_bat_4 8597_bat_3 barrel_of_apples

~/Castle/Cellar
[mission 9] $ ls -a

. . . 13529_bat_1 18474_bat_5 .18908_bat_4 .24227_bat_5 .25047_bat_1 .25064_bat_3 .25503_bat_2 31361_bat_2 4594_bat_4 8597_bat_3 barrel_of_apples

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

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

```
-/Castle/Cellar
[mission 10] $ cd ..

-/Castle
[mission 10] $ ls
Cellar/ Great_hall/ Main_building/ Main_tower/ Observatory/

-/Castle
[mission 10] $ cd Great_hall/
[mission 10] $ ls
13661_suit_of_armour 22429_stag_head 47422_decorative_shield standard_1 standard_2 standard_3 standard_4

-/Castle/Great_hall
[mission 10] $ cp standard_1 standard_2 standard_3 standard_4 /home/kali/gameshell/World/Forest/Hut/Chest

-/Castle/Great_hall
[mission 10] $ gsh check

Congratulations, mission 10 has been successfully completed!
```

```
~/Castle/Great_hall
[mission 11] $ gsh goal
        Mission goal
        The tapestries in the castle's great hall are also particularly beautiful. Put a copy of each in your chest.
~/Castle/Great_hall
[mission 11] $ ls -a
                 16357_tapestry_07
                                        23214_tapestry_04
                                                                   34520_tapestry_05 64186_tapestry_09 standard_1 standard_4
                                                                   36897_tapestry_02 64284_tapestry_06 standard_2
55025_tapestry_10 65030_tapestry_01 standard_3
                  19789_suit_of_armour 30287_decorative_shield
16208_stag_head 20470_tapestry_08
                                        30977_tapestry_03
~/Castle/Great_hall
[mission 11] $ cp *tapestry* /home/kali/gameshell/World/Forest/Hut/Chest
~/Castle/Great_hall
[mission 11] $ gsh check
~/Castle/Great_hall
[mission 12] $ gsh goal
       Mission goal
       While wandering around the first floor of the main tower, some magnificent paintings catch your eye. Add a copy of the oldest one to your
~/Castle/Great_hall
[mission 12] $ cd ..
~/Castle
[mission 12] $ ls
Cellar/ Great_hall/ Main_building/ Main_tower/ Observatory/
~/Castle
[mission 12] $ cd Main_tower/
~/Castle/Main_tower
[mission 12] $ ls
First_floor/
~/Castle/Main_tower
[mission 12] $ cd First_floor/
~/Castle/Main_tower/First_floor
[mission 12] $ ls
painting_kFQZloxX painting_LWZKAqyM painting_VMyQwJDN Second_floor/
~/Castle/Main_tower/First_floor
[mission 12] $ ls -la
total 24
drwxr-xr-x 3 kali kali 4096 Jul 16 13:30 ./
drwxr-xr-x 3 kali kali 4096 Jul 16 12:27 ../
-rw-r--r-- 1 kali kali 1055 Apr 22 2012 painting_kFQZloxX
-rw-r--r-- 1 kali kali 1502 Nov 4 1987 painting_LWZKAqyM
-rw-r--r-- 1 kali kali 1454 Jul 5 2001 painting_VMyQwJDN
drwxr-xr-x 3 kali kali 4096 Jul 16 12:27 Second_floor/
~/Castle/Main_tower/First_floor
[mission 12] $ cp painting_LWZKAqyM /home/kali/gameshell/World/Forest/Hut/Chest
```

```
~/Castle/Main_tower/First_floor
[mission 13] $ cal 2 1922
February 1922
Su Mo Tu We Th Fr Sa
5 6 7 8 9 10 11
12 13 14 15 16 17 18
19 20 21 22 23 24 25
26 27 28
~/Castle/Main_tower/First_floor
[mission 13] $ gsh check
What was the day of the week for the 02-25-1922?
 1 : Monday
  2 : Tuesday
  3 : Wednesday
  4 : Thursday
  5 : Friday
  6 : Saturday
  7 : Sunday
Your answer: 6
```

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

~/Castle/Main_tower/First_floor
[mission 14] $ la
.nice_rock painting_kFQZloxX painting_LWZKAqyM painting_VMyQwJDN Second_floor/

~/Castle/Main_tower/First_floor
[mission 14] $ gsh check

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

```
~/Castle/Main_tower/First_floor
[mission 15] $ cd /home/kali/gameshell/World/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!
```

```
~/Forest/Hut/Chest
[mission 16] $ alias journal='nano /home/kali/gameshell/World/Forest/Hut/Chest/journal.txt'

~/Forest/Hut/Chest
[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).
/.'`;|::::::'| ||______
```

~/Forest/Hut/Chest [mission 17] \$ gsh goal



Mission goal

At the back of the cellar, there is a small opening going to the spider queen's lair. Go there, and remove the spider queen (and nothing else).

Note: you have a limited amount of time (20 seconds) to do that. You can use the command ``gsh reset`` to reset the timer.

Another thing: shell patterns have been deactivated. You cannot use the wildcards ``*`` or ``?``.

~/Castle/Cellar [mission 17] \$ cd .Lair_of_the_spider_queen\ mGJjCIZmicgCTqkJ LdkSkWvWMYUmkfsr/

~/Castle/Cellar/.Lair_of_the_spider_queen mGJjCIZmicgCTqkJ LdkSkWvWMYUmkfsr [mission 17] \$ la aURmSplVjAqPmmPq_baby_bat_apJaRbsJJjdjJSDm ksJJtVvGIDbWxcgb_spider_queen_TkFAKYEDQQdJQXVq

~/Castle/Cellar/.Lair_of_the_spider_queen mGJjCIZmicgCTqkJ LdkSkWvWMYUmkfsr [mission 17] \$ rm ksJJtVvGIDbWxcgb_spider_queen_TkFAKYEDQQdJQXVq

~/Castle/Cellar/.Lair_of_the_spider_queen mGJjCIZmicgCTqkJ LdkSkWvWMYUmkfsr [mission 17] \$ gsh check Perfect, it took you only 15 seconds to complete this mission!

Congratulations, mission 17 has been successfully completed!

~/Castle/Cellar/.Lair_of_the_spider_queen mGJjCIZmicgCTqkJ LdkSkWvWMYUmkfsr [mission 18] \$ gsh goal



Mission goal

As you are walking around the castle, you feel like you are being watched... Turn your head quickly enough and you may see one of the paintings' eyes following you.

1/ Run the `xeyes` command, and stop it. 2/ Run the `xeyes` command in the background.





```
~/Garden/Maze
[mission 20] $ tree
    161ae6063d0a4a9
       050fd6786
          - 643108829
           7b968c337b204d8f6
            └─ 00000_silver_coin_00000
           ecfd97956599
        486f18719f
          - a26d51fb06e4281766084ac380
          - dd5e3ec5a7d6c260163e13c0582c4
~/Garden/Maze
[mission 20] $ mv 161ae6063d0a4a9/050fd6786/7b968c337b204d8f6/00000_silver_coin_00000 /home/kali/gameshell/World/Forest/Hut/Chest/
~/Garden/Maze
[mission 20] $ gsh check
-/Garden/Maze
[mission 21] $ gsh goal
(0)
       Mission goal
       Find the gold coins in the maze hidden in the garden and move them to your chest.
~/Garden/Maze
[mission 21] $ find -iname *gold*
./bbed0ad941fdefc790e03e07/572326af9/225d1c35c5f53985a2b/gold_coin_1
./9915b42478cc0b6/03fe08f63ca1/6ae8eecb7cd6b3b1/GolD_CoiN_2
~/Garden/Maze
[mission 21] $ mv bbed0ad941fdefc790e03e07/572326af9/225d1c35c5f53985a2b/gold_coin_1 9915b42478cc0b6/03fe08f63ca1/6ae8eecb7cd6b3b1/GolD_CoiN_2
/home/kali/gameshell/World/Forest/Hut/Chest/
~/Garden/Maze
[mission 21] $ gsh check
~/Garden/Maze
[mission 22] $ gsh goal
        Mission goal
         A forgetful old hermit called Servillus has set up camp in a cave with his old, leather-bound potion book.
        Go to the cave and help him remember the recipe of his famous herbal tea.
         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 recipe (including its title), but nothing else.
```

Note: you shouldn't alter the content of the book of potions.

```
~/Garden/Maze
[mission 22] $ cd ../..

~
[mission 22] $ ls
Castle/ Forest/ Garden/ Mountain/ Stall/

~
[mission 22] $ cd Mountain/

~/Mountain
[mission 22] $ ls
Cave/

~/Mountain
[mission 22] $ cd Cave

~/Mountain/Cave
[mission 22] $ ls
Book_of_potions/ servillus
```

```
-/Mountain/Cave/Book_of_potions
[mission 22] $ head -n 1 page_??

⇒ page_01 ←
Transformation potion

⇒ page_02 ←
10) Add 3 measures of boomslang skin to the cauldron.

⇒ page_03 ←
Elixir of youth

⇒ page_04 ←
8) Let the preparation rest for a day.

⇒ page_05 ←
Ph/

⇒ page_06 ←
Bot/

⇒ page_07 ←
Herbal tea

⇒ page_08 ←

⇒ page_08 ←

⇒ page_09 ←
4) Empty the cauldron in the sewer.

⇒ page_10 ←
Homeopathic healing potion (part 2)

⇒ page_11 ←
Homeopathic healing potion (part 3)

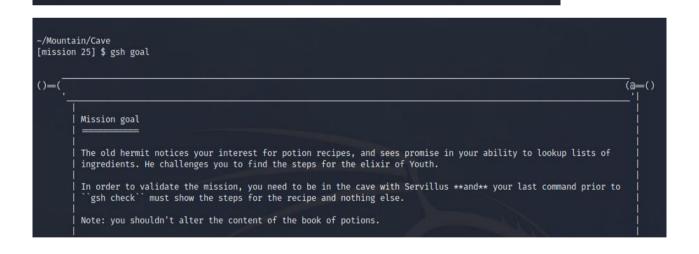
⇒ page_12 ←
Toadstool stew

⇒ page_13 ←
Distilled water
```

~/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!

~/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!



~/Mountain/Cave [mission 25] \$ tail -n 7 Book_of_potions/page_03 & head -n 9 Book_of_potions/page_04 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

~/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!

```
~/Mountain/Cave
[mission 27] $
   *#0*
  8_**/~
!$-#
        *#@*
       δ_**/~
!$-#
                             *#@*
                            8_**/~
!$-#
   PID TTY
                      TIME CMD
                  00:00:03 zsh
 65912 pts/0
 88465 pts/0
                  00:00:00 bash
 88492 pts/0
                  00:00:01 bash
 105923 pts/0
                  00:00:04 xeyes
                 00:00:00 spell
00:00:00 ps
 130753 pts/0
131042 pts/0
```



```
~/Mountain/Cave
[mission 28] $ kill -s TERM 13

*#@*

$\delta_**/~
!$-#

1925
You'll need to do better than that to kill my spell!

*#@*

$\delta_**/~
!$-#

*#@*

$\delta_***/~
!$-#
```

```
PID TTY
                    TTMF CMD
 65912 pts/0
                00:00:03 zsh
 88465 pts/0
                 00:00:00 bash
88492 pts/0
105923 pts/0
                 00:00:01 bash
                00:00:04 xeyes
                 00:00:00 spell
131925 pts/0
                 00:00:00 spell
132193 pts/0
132209 pts/0
                 00:00:00 spell
                 00:00:00 ps
132237 pts/0
```

```
ki
                    *#@*
                   δ_**/~
!$-#
    *#0*
   δ_**/~
!$-#
                      *#0*
                     δ_**/~
!$-#
 -9 131925
                               *#@*
                              δ_**/~
!$-#
~/Mountain/Cave
[mission 28] $ ps
    PID TTY
                      TIME CMD
  65912 pts/0
                  00:00:03 zsh
  88465 pts/0
                  00:00:00 bash
  88492 pts/0
                  00:00:01 bash
                  00:00:04 xeyes
 105923 pts/0
                  00:00:00 spell
 132193 pts/0
 132209 pts/0
                  00:00:00 spell
 132270 pts/0
                  00:00:00 ps
```

```
~/Mountain/Cave
[mission 28] $
         *#@*
         δ_**/~
!$-#
                             *#0*
                            δ_**/~
!$-#
kill -9 132
                 *#@*
                δ_**/~
!$-#
19
                             *#0*
                            8_**/~
!$-#
~/Mountain/Cave
[mission 28] $ ps
   PID TTY
                      TIME CMD
 65912 pts/0
                  00:00:03 zsh
 88465 pts/0
                  00:00:00 bash
 88492 pts/0
                  00:00:01 bash
 105923 pts/0
                  00:00:04 xeyes
                  00:00:00 spell
 132209 pts/0
 132303 pts/0
                  00:00:00 ps
```

```
~/Mountain/Cave
[mission 28] $
        *#@*
        δ_**/~
!$-#
kill -9 1322
                        *#@*
                        δ_**/~
!$-#
09
~/Mountain/Cave
[mission 28] $ ps
   PID TTY
                     TIME CMD
  65912 pts/0
                 00:00:03 zsh
  88465 pts/0
                 00:00:00 bash
  88492 pts/0
                 00:00:01 bash
 105923 pts/0
                 00:00:04 xeyes
 132336 pts/0
                 00:00:00 ps
```

```
~/Mountain/Cave
[mission 28] $ gsh check
Congratulations, mission 28 has been successfully completed!
```

```
~/Castle/Cellar
[mission 29] $ pstree 132654 -p
mischievous_imp(132654) — spell(132679) — sleep(171820) — spell(132682) — sleep(171668)
                           -spell(132683)---sleep(171766)
                          Ltail(132684)
~/Castle/Cellar
[mission 29] $ kill -9 132679 132682 132683
~/Castle/Cellar
[mission 29] $ ps
    PID TTY
                      TIME CMD
  65912 pts/0
                  00:00:03 zsh
  88465 pts/0
                  00:00:00 bash
  88492 pts/0
                  00:00:01 bash
 105923 pts/0
                  00:00:05 xeyes
 132653 pts/0
                  00:00:00 nice_fairy
                  00:00:00 mischievous_imp
 132654 pts/0
 132661 pts/0
                  00:00:00 spell
 132662 pts/0
                  00:00:00 spell
 132663 pts/0
                  00:00:00 spell
 132664 pts/0
                  00:00:00 tail
 132684 pts/0
                  00:00:00 tail
                  00:00:00 sleep
 182778 pts/0
 182811 pts/0
                  00:00:00 sleep
                  00:00:00 sleep
 182905 pts/0
 182927 pts/0
                  00:00:00 sleep
 182942 pts/0
                  00:00:00 sleep
 182943 pts/0
                  00:00:00 sleep
                  00:00:00 ps
 182960 pts/0
```

```
-/Castle/Cellar
[mission 29] $ gsh check
Congratulations, mission 29 has been successfully completed!
```

```
31443_snowflake
                                                                                              46634_coal
                                                                                                                      5451_snowflake
                       23822_snowflake
                                                                                                                                             61915_coal
                                                                                                                                                                     9556_snowflake
                                                                                                                                            61915_snowflake
61951_coal
16422_coal
16430_coal
                       23913_coal
2392_snowflake
                                              31447_coal
31473_coal
                                                                      3900_coal
3901_coal
                                                                                             46650_coal
46862_snowflake
                                                                                                                     54522_coal
54548_coal
                                                                                                                                                                     9630_coal
                                                                                                                                                                     9653_coa
                                               31487_snowflake
                                                                      39098_snowflake
                                                                                              46865_snowflake
                                                                                                                     54554_coal
                                                                                                                                             61960_snowflake
                       23941_snowflake
16594 snowflake
                                                                                                                                                                     9704_snowflake
                                               31497 coal
                                                                      39139_coal
                                                                                              47065_coal
                                                                                                                      54556 coal
                                                                                                                                             61966_coal
6198_coal
                       23950_snowflake
                                               31497_snowflake
                                                                      39212_coal
                                                                                              47071_coal
                                                                                                                                                                     9768_coal
1659_coal
                                                                                                                      54583_coal
                                                                                                                                                                    9812_snowflake
9830_snowflake
16639_coal
16679_snowflake
                       23997_coal
24027_coal
                                               3154_coal
31565_coal
                                                                      39279_snowflake
39280_coal
                                                                                             47077_coal
47118_coal
                                                                                                                      54624_snowflake
5469_snowflake
                                                                                                                                            61997_snowflake
62007_snowflake
16680_snowflake 24027_snowflake
16705_snowflake 24051_coal
                                               31619_coal
                                                                       39299<u></u>coal
                                                                                              47123_coal
                                                                                                                      5472_snowflake
                                                                                                                                             62090_coal
                                                                                                                                                                     9889_snowflake
                                                                                              47145_snowflake
                                                                                                                     54738_snowflake
54742_coal
                                                                                                                                             62100 coal
                                                                                                                                                                     9920 snowflake
                                               31690 coal
                                                                      39475 coal
                                                                       39485_coal
                                                                                                                                             62108_coal
16708_snowflake 24057_coal
                                               31734_snowflake
                                                                                              47146_coal
                      24069_coal
24140_coal
                                               31774_coal
31787_coal
                                                                      39506_snowflake
39577_coal
                                                                                                                                             62123 snowflake
16728 snowflake
                                                                                             47233 coal
                                                                                                                      5481 coal
                                                                                                                                                                    9959 coal
                                                                                              47246_coal
                                                                                                                      548_snowflake
                                                                                                                                             62125_coal
                                                                                                                                                                     barrel_of_apples
-/Castle/Cellar
[mission 29] $ rm *coal*
[mission 29] $ ls
10007_snowflake 16705_snowflake 23656_snowflake 31990_snowflake 39884_snowflake 47644_snowflake 5548_snowflake
                                                                                                                                                                    63100_snowflake
                                                                                             39939_snowflake 47715_snowflake 55526_snowflake 39961_snowflake 47735_snowflake 55547_snowflake 40008_snowflake 47860_snowflake 55730_snowflake
10311_snowflake 16708_snowflake 10318_snowflake 16728_snowflake
                                              23758_snowflake
23822_snowflake
                                                                      32049_snowflake
32064_snowflake
                                                                                                                                                                    63104_snowflake
                                                                                                                                                                    63174 snowflake
                                                                                                                                            55730_snowflake
55743_snowflake
55788_snowflake
                                               2384_snowflake
                                                                      32138_snowflake
                                                                                                                                                                     63181_snowflake
10424_snowflake
10427_snowflake
                       16776_snowflake
16822_snowflake
                                              2392_snowflake
23941_snowflake
                                                                      32199_snowflake 40039_snowflake 47907_snowflake 32369_snowflake 40052_snowflake 47918_snowflake
                                                                                                                                                                    6326_snowflake
                                                                                                                                                                     63270_snowflake
                      16823_snowflake
16886_snowflake
                                              23950_snowflake
24027_snowflake
                                                                      32419_snowflake 40143_snowflake 48010_snowflake 3252_snowflake 40273_snowflake 48096_snowflake
                                                                                                                                            55905_snowflake
56115_snowflake
                                                                                                                                                                    63320_snowflake
63322_snowflake
10441_snowflake
10443_snowflake
10481_snowflake
                       16917_snowflake
                                              24223_snowflake
                                                                      32587_snowflake 40326_snowflake 48132_snowflake
                                                                                                                                            5613_snowflake
                                                                                                                                                                    63363_snowflake
```

```
~/Castle/Cellar
[mission 29] $ gsh check
Congratulations, mission 29 has been successfully completed!
```

```
~/Castle/Cellar

[mission 30] $ gsh check

44 + 7 = ?? 51

88 + 58 = ?? 146

22 + 40 = ?? 62

61 + 13 = ?? 74

76 + 74 = ?? 150

Congratulations, mission 30 has been successfully completed!
```

```
~/Castle/Main_building/Library
 [mission 31] $ gsh goal
   (_\
                 Mission goal
                 To get better in the magical art, one needs to know mental math.
                 Get ready, because Merlin is about to test you speed with products.
                 Run the command ``gsh check`` to start.
   /Castle/Main_building/Library
-/Castle/Main_building/Library
[mission 31] $ gsh check < Mathematics_101

70 * 7 = ?? 52 * 78 = ?? 55 * 59 = ?? 2 * 3 = ?? 92 * 31 = ?? 51 * 74 = ?? 31 * 31 = ?? 97 * 69 = ?? 83 * 54 = ?? 99 * 13 = ?? 47 * 100 = ?? 89

* 51 = ?? 6 * 30 = ?? 35 * 28 = ?? 94 * 44 = ?? 56 * 19 = ?? 44 * 25 = ?? 60 * 76 = ?? 80 * 14 = ?? 35 * 19 = ?? 61 * 48 = ?? 64 * 92 = ?? 97

* 66 = ?? 44 * 88 = ?? 39 * 4 = ?? 47 * 84 = ?? 36 * 68 = ?? 31 * 41 = ?? 82 * 25 = ?? 3 * 50 = ?? 90 * 83 = ?? 93 * 70 = ?? 11 * 98 = ?? 16 *

8 = ?? 95 * 72 = ?? 62 * 54 = ?? 38 * 3 = ?? 2 * 35 = ?? 81 * 79 = ?? 89 * 99 = ?? 96 * 13 = ?? 6 * 71 = ?? 60 * 97 = ?? 15 * 3 = ?? 39 * 63 =

?? 10 * 32 = ?? 81 * 82 = ?? 97 * 73 = ?? 30 * 66 = ?? 86 * 42 = ?? 32 * 86 = ?? 19 * 67 = ?? 12 * 63 = ?? 89 * 24 = ?? 94 * 23 = ?? 15 * 21 =

?? 93 * 44 = ?? 96 * 23 = ?? 57 * 45 = ?? 69 * 90 = ?? 59 * 63 = ?? 17 * 80 = ?? 91 * 59 = ?? 66 * 69 = ?? 28 * 47 = ?? 27 * 56 = ?5 4 * 41 =

?? 11 * 27 = ?? 66 * 97 = ?? 6 * 81 = ?? 89 * 33 = ?? 2 * 49 = ?? 72 * 65 = ?? 13 * 37 = ?? 35 * 38 = ?? 24 * 68 = ?? 86 * 14 = ?? 14 * 29 = ??

17 * 25 = ?? 60 * 44 = ?? 12 * 72 = ?? 73 * 79 = ?? 39 * 5 = ?? 75 * 56 = ?? 24 * 19 = ?? 91 * 83 = ?? 1 * 20 = ?? 12 * 92 = ?? 17 * 40 = ?? 3

3 * 20 = ?? 53 * 74 = ?? 87 * 55 = ?? 85 * 33 = ?? 35 * 38 = ?? 87 * 69 = ?? 12 * 4 = ?? 21 * 52 = ?? 70 * 69 = ?? 27 * 64 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15 * 65 = ?? 15
 While you are waiting, a snail goes by...
  -/Castle/Main_building/Library/Merlin_s_office
 [mission 32] $ gsh goal
                                                                                                                                                                                                                                                          (a=()
                   Mission goal
                   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...
  ~/Castle/Main_building/Library/Merlin_s_office
  [mission 32] $ ls
  candle
                               grimoire_14983 grimoire_18568 grimoire_21488 grimoire_25264 grimoire_28395 grimoire_30614 grimoire_5178 grimoire_8036
  Drawer/ grimoire_15523 grimoire_18619 grimoire_22174 grimoire_10490 grimoire_1594 grimoire_18719 grimoire_22213
                                                                                                                          grimoire_25597
                                                                                                                                                        grimoire_28732 grimoire_30822
                                                                                                                                                                                                                     grimoire_5668
                                                                                                                                                                                                                                                  grimoire_8565
                                                              grimoire_18719 grimoire_22213
                                                                                                                          grimoire_25601 grimoire_28913 grimoire_30975 grimoire_6236 grimoire_8975
  grimoire_11816 grimoire_16060 grimoire_19419 grimoire_22416 grimoire_2573 grimoire_11856 grimoire_16087 grimoire_2054 grimoire_22606 grimoire_26771 grimoire_12475 grimoire_17212 grimoire_20748 grimoire_22650 grimoire_27061
                                                                                                                          grimoire_2573 grimoire_28933 grimoire_31097 grimoire_6614 grimoire_9276 grimoire_26771 grimoire_28953 grimoire_31580 grimoire_6923 grimoire_956
                                                                                                                          grimoire_27061 grimoire_29036 grimoire_31924 grimoire_7110
  grimoire_13076 grimoire_17436 grimoire_20755 grimoire_23010
                                                                                                                          grimoire_27441 grimoire_29366 grimoire_32000
                                                                                                                                                                                                                     grimoire_7141
  grimoire_13084
                               grimoire_17446
                                                              grimoire_20988 grimoire_23200
                                                                                                                          grimoire_27470
                                                                                                                                                         grimoire_2952
                                                                                                                                                                                        grimoire_3210
                                                                                                                                                                                                                      grimoire_7370
                               grimoire_17481
  grimoire_13920
                                                              grimoire_20998 grimoire_23486
                                                                                                                          grimoire_27968
                                                                                                                                                         grimoire_29679 grimoire_32236 grimoire_7417
  grimoire_14396 grimoire_17523 grimoire_21252 grimoire_24224 grimoire_28075 grimoire_29751 grimoire_32286 grimoire_771
  grimoire_14453 grimoire_17528 grimoire_21333 grimoire_24659
                                                                                                                          grimoire_28132
                                                                                                                                                        grimoire_29896
                                                                                                                                                                                       grimoire_3659
                                                                                                                                                                                                                      grimoire_7819
  grimoire_14734 grimoire_18160 grimoire_21445 grimoire_24939 grimoire_28302 grimoire_30310 grimoire_4613
                                                                                                                                                                                                                      grimoire_7959
  ~/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 gsh grimoire* -li 2>error
grimoire_EkwDSsDELZwDiLP
grimoire_FPpvLEVcEqCatin
grimoire_gmqRdppKyNLg
grimoire_HKSKRNdyJ
grimoire_hOpfISbeaiYvnb
grimoire_JBPSzEXMN
grimoire_JFnkHbHGVgIrpj
grimoire_KpynWEjgyDkZQNNsbEHGlrzTafmx
grimoire_kYqHTdWYdsCv
grimoire_NMHcsGNLW
grimoire_nTfNmbFORJQHgKmzpue
grimoire_OMlzQYgJTYLiOjyqvXKHVXmyhwY
grimoire_OPALsNKgoebEIRVubmKtvR
grimoire_osYjfVQdblZEcnuFBKRdrOki
grimoire_plQpXFCLuJ
grimoire_pUhfPdvjTH
grimoire_qKkkrKLblk
grimoire_QlVuYSAyTRccJjdvYjcjqdeu
grimoire_RFQnoVVSsRecltKOSxjiCeD
grimoire_RuxlBzRaTz
grimoire_UoNGyJPOTTzdCtKVdypw
grimoire_vglxdTsDRpdEOGdCkwK
grimoire_WjEqIMNzpsrqIbkRHXEWzBReqMhXJS
grimoire_XdJnYZpCNtNfxkuSoBTjXs
grimoire_zpUpWYzfKZdTwaxyWp
~/Castle/Main_building/Library/Merlin_s_office
[mission 33] $ gsh check
```



```
~/Castle/Observatory
[mission 34] $ ./merlin 2>error >key
~/Castle/Observatory
[mission 34] $ ls
error key merlin star_chart
~/Castle/Observatory
[mission 34] $ cat kay
cat: kay: No such file or directory
~/Castle/Observatory
[mission 34] $ cat key
THESECRETKEYISONSTDERR
~/Castle/Observatory
~/caster/obstvects/
[mission 34] $ cat error
mmLQdUpIBLggptkmVOaUxiSuBCdHDyNiBFntGeAnREpJVSSYYKqoNMSewDaXjXkxeYdaJcXvDgQeqaGZeSubYAcdaCyEwHVOIeUqlSOeWInGDbAcGQFmaYvTidcLezGeJAmoJdRzeLpmMiH
CRrUmkFnprwrwgMVyTiJtlLSxKUgSoKxIYtCwHfVZpnlKyJzhLHvuyLWk
~/Castle/Observatory
[mission 34] $ gsh check < error
What is the secret key?
Congratulations, mission 34 has been successfully completed!
~/Castle/Observatory
[mission 35] $ gsh goal
             Mission goal
             The door to the King's quarter is in the throne room.
             Go to the King's quarter.
 ~/Castle/Main_building/Throne_room
[mission 35] $ cd Kings_quarter/
bash: cd: Kings_quarter/: Permission denied
~/Castle/Main_building/Throne_room
[mission 35] $ chmod u+x Kings_quarter/
 ~/Castle/Main_building/Throne_room
[mission 35] $ cd Kings_quarter/
~/Castle/Main_building/Throne_room/Kings_quarter
[mission 35] $ gsh check
Congratulations, mission 35 has been successfully completed!
~/Castle/Main_building/Throne_room/Kings_quarter
[mission 36] $ gsh goal
          Mission goal
          The King is rumored to keep the combination to his safe written on a note in his room.
          Find that combination.
```

```
~/Castle/Main_building/Throne_room/Kings_quarter
[mission 36] $ ls -la
total 16
drwxr-xr-x 2 kali kali 4096 Jul 16 18:56 ./
drwxr-xr-x 3 kali kali 4096 Jul 16 12:27 ../
-rw-r--r-- 1 kali kali 11 Jul 16 18:55 note
--w---- 1 kali kali 11 Jul 16 18:55 .secret_note
~/Castle/Main_building/Throne_room/Kings_quarter
[mission 36] $ cat .secret_note cat: .secret_note: Permission denied
~/Castle/Main_building/Throne_room/Kings_quarter
[mission 36] $ ls -la
total 16
drwxr-xr-x 2 kali kali 4096 Jul 16 18:56 ./
drwxr-xr-x 3 kali kali 4096 Jul 16 12:27 ../
-rw-r--r-- 1 kali kali 11 Jul 16 18:55 note
--w----- 1 kali kali 11 Jul 16 18:55 .secret_note
~/Castle/Main_building/Throne_room/Kings_quarter
[mission 36] $ chmod u+r .secret_note
~/Castle/Main_building/Throne_room/Kings_quarter
[mission 36] $ cat .secret_note
5958435907
~/Castle/Main_building/Throne_room/Kings_quarter
[mission 36] $ gsh check
What's the combination to open the King's safe? 5958435907
```

~/Castle/Main_building/Throne_room/Kings_quarter [mission 37] \$ gsh goal





Mission goal

The safe in the throne room contains the king's crown. Steal it and store it in your chest.

Also, the base of the crown is inscribed with a magical sequence of digits. Look at those digits and remember them.

```
~/Castle/Main_building/Throne_room
[mission 37] $ ls -la
total 16
drwxr-xr-x 4 kali kali 4096 Jul 16 18:58 ./
drwxr-xr-x 4 kali kali 4096 Jul 16 12:27 ../
drwxr-xr-x 2 kali kali 4096 Jul 16 18:56 Kings_quarter/
         — 2 kali kali 4096 Jul 16 18:58 <mark>Safe</mark>/
d-
~/Castle/Main_building/Throne_room
[mission 37] $ chmod u+rwx Safe/
~/Castle/Main_building/Throne_room
[mission 37] $ cd Safe/
~/Castle/Main_building/Throne_room/Safe
[mission 37] $ ls -la
drwx----- 2 kali kali 4096 Jul 16 18:58 ./
drwxr-xr-x 4 kali kali 4096 Jul 16 18:58 ../
         - 1 kali kali 48 Jul 16 18:58 crown
~/Castle/Main_building/Throne_room/Safe
[mission 37] $ cat crown
cat: crown: Permission denied
~/Castle/Main_building/Throne_room/Safe
[mission 37] $ chmod u+rwx crown
~/Castle/Main_building/Throne_room/Safe
[mission 37] $ cat crown
_.+._
(^\/^\/^)
                 jgs
 \a*a*a/
 {_064_}
~/Castle/Main_building/Throne_room/Safe
[mission 37] $ mv crown /home/kali/gameshell/World/Forest/Hut/Chest/
~/Castle/Main_building/Throne_room/Safe
[mission 37] $ gsh check
What are the 3 digits inscribed on the base of the crown? 064
```

~/Castle/Main_building/Throne_room/Safe [mission 38] \$ gsh goal



Mission goal

Look for the ruby in the maze in the garden, and move it to your chest.

Hint

The filename does not contain the string "ruby". Since there aren't many files in the maze, a possible strategy is to look for all **file** (as opposed to directories), and check by hand which one contains the string "ruby".

```
~/Castle/Main_building/Throne_room/Safe
[mission 38] $ cd ../../..

~/Castle
[mission 38] $ ls
Cellar/ Great_hall/ Main_building/ Main_tower/ Observatory/

~/Castle
[mission 38] $ cd ..

~
[mission 38] $ ls
Castle/ Forest/ Garden/ Mountain/ Stall/

~
[mission 38] $ cd Garden/Maze/

~/Garden/Maze
[mission 38] $ ls
0181f43f/ 47eicfic3c5db28f6a293a2021931/ 71bd232da42fa20d/
0593cfad8b/ 4da0cda6c2e6f2b19e69546f47c3/ 72421448165ae5082dfed59a4f05c/ alcidc3e12ac965b6/ effb92a952ee2808206a192/
```

```
~/Garden/Maze
[mission 38] $ grep -R "ruby" -li 2>error
0181f43f/fe47dcdb898408c4a4e277ab/8f40c2cbf11aeae062fc54a1a8535/6917
```

```
~/Garden/Maze
[mission 38] $ cd 0181f43f/fe47dcdb898408c4a4e277ab/8f40c2cbf11aeae062fc54a1a8535/
~/Garden/Maze/0181f43f/fe47dcdb898408c4a4e277ab/8f40c2cbf11aeae062fc54a1a8535
[mission 38] $ ls
6917
~/Garden/Maze/0181f43f/fe47dcdb898408c4a4e277ab/8f40c2cbf11aeae062fc54a1a8535
[mission 38] $ cat 6917
6917 ruby 5f7a70f5d67dabe11a7645fa425b950901942c59
~/Garden/Maze/0181f43f/fe47dcdb898408c4a4e277ab/8f40c2cbf11aeae062fc54a1a8535
[mission 38] $ mv 6917 /home/kali/gameshell/World/Forest/Hut/Chest/
~/Garden/Maze/0181f43f/fe47dcdb898408c4a4e277ab/8f40c2cbf11aeae062fc54a1a8535
[mission 38] $ gsh check
Congratulations, mission 38 has been successfully completed!
You are back at the entrance of the maze...
```

```
~/Garden/Maze
[mission 39] $ grep -R "diamond" -li 2>error
4cf0e4492e/2a62da804717dcf2f2f557123dab96d/7c1ccea89a0998230655b
~/Garden/Maze
[mission 39] $ cd 4cf0e4492e/2a62da804717dcf2f2f557123dab96d/7c1ccea89a0998230655b
bash: cd: 4cf0e4492e/2a62da804717dcf2f2f557123dab96d/7c1ccea89a0998230655b: Not a directory
~/Garden/Maze
[mission 39] $ cd 4cf0e4492e/2a62da804717dcf2f2f557123dab96d/
~/Garden/Maze/4cf0e4492e/2a62da804717dcf2f2f557123dab96d
[mission 39] $ cat 7c1ccea89a0998230655b
7c1ccea89a0998230655b diamond 5df8e92d24105ef5a292e1fdefe035520d940051
~/Garden/Maze/4cf0e4492e/2a62da804717dcf2f2f557123dab96d
[mission 39] $ mv 7c1ccea89a0998230655b /home/kali/gameshell/World/Forest/Hut/Chest/
~/Garden/Maze/4cf0e4492e/2a62da804717dcf2f2f557123dab96d
[mission 39] $ gsh check
Congratulations, mission 39 has been successfully completed!
You are back at the entrance of the maze ...
```



```
~/Garden/Maze
[mission 40] $ cd ../..
(1)

[mission 40] $ ls

Castle/ Forest/ Garden/ Mountain/ Stall/
(2)

[mission 40] $ cd Stall
(3)

~/Stall
[mission 40] $ ls

0022f74e9d75_boring_object_0022f74e9d756f9a

002516a3_boring_object_002516a3693e00ca

002516a3_boring_object_002516a3693e00ca

002516a3_boring_object_002516a3693e00ca

002516a3_boring_object_0025618550f0d3cc

00339a9de44fbe_boring_object_00339a9de44fbe6d

0034cc67818de9_boring_object_00336d185bb927c37

0053a65932_boring_object_0053a65932ab5e20

0056c4bbf815_boring_object_0053a65932ab5e20

0056c4bbf815_boring_object_0056c4bbf815d548

006dbbb4adcdec1_boring_object_006dbb4adcdec194

00787a625abc6a_boring_object_00787a625abc6ae4

00880ae1861f9_boring_object_00880ae1861f9c3c
```

526fdcfcb_boring_object_526fdcfcbc09a0ef 527697e63aa0_boring_object_527697e63aa002b8 528964d69258f1_boring_object_528964d69258f115 528bf080a05478_boring_object_528bf080a054789d 52905ac990d7_boring_object_52905ac990d761ab 52b8cf59f45210_boring_object_52b8cf59f45210f6 52bad5ade_boring_object_52bad5adeaba0e38 52c214bf_boring_object_52c214bf277d7022 52d0a91b82a4c2_boring_object_52d10f2c3aee991d 52f4716ef359062_boring_object_52d10f2c3aee991d 52f4716ef359062_boring_object_52f4716ef3590624 a9bd97f8e43b_boring_object_a9bd97f8e43bc9c9
a9e20da383af5e_boring_object_a9e20da383af5ebd
a9f6972284424f3_boring_object_a9f6972284424f3e
aa0e4c9cb73d2c_boring_object_aa0e4c9cb73d2cde
aa16c451d_boring_object_aa16c451da77a4d0
aa2608b15_boring_object_aa2608b15a6dbdf3
aa40c200_boring_object_aa40c20047ec3277
aa5b7873810f490_boring_object_aa5b7873810f490c
aa69f8808d_boring_object_aa69f8808dccaaf3
aa6d015e2_boring_object_aa60f8080dcaaf3
aa6d015e2_boring_object_aa6f803ca6c6

```
(0)
~/Stall
[mission 40] $ grep -R "king" -li 2>error
a3f2d7145b7a_s_c_r_o_l_l_a3f2d7145b7a9a50
(1)
~/Stall
[mission 40] $ grep PAID -v a3f2d7145b7a_s_c_r_o_l_l_a3f2d7145b7a9a50 | grep King
the King bought a chicken for 2 coppers.
the King bought a leather bag for 4 coppers.
the King bought a chicken for 4 coppers.
the King bought a pin for 2 coppers.
the King bought a shiny rock for 2 coppers.
(2)
~/Stall
[mission 40] $ gsh check
How much does the king owe? 14
Congratulations, mission 40 has been successfully completed!
~/Stall
[mission 41] $ gsh goal
Mission goal
       Combine several commands with ``|`` in order to find the number of unpaid items.
(0)
~/Stall
[mission 41] $ grep "PAID" -R -v | wc -l
44
(1)
~/Stall
[mission 41] $ gsh check
How many unpaid items are there? 44
Congratulations, mission 41 has been successfully completed!
~/Castle/Main_building/Library/Merlin_s_office/Drawer
[mission 42] $ gsh goal
\_/\/<sup>-</sup>ii
       Mission goal
       A secret message has been found, it is kept in the drawer in Merlin's office. It was probably enciphered using a Caesar shift cipher.
       Decrypt it by making an exhaustive search from the command line.
```

```
~/Castle
[mission 42] $ cd Main building/Library/Merlin s office/Drawer/
~/Castle/Main_building/Library/Merlin_s_office/Drawer
[mission 42] $ ls -la
total 20
drwxr-xr-x 2 kali kali 4096 Jul 16 19:36 /
drwxr-xr-x 3 kali kali 4096 Jul 16 18:27 .../
-rw-r--r-- 1 kali kali 195 Jul 16 19:36 ink_and_scroll
-rw-r--r-- 1 kali kali 1459 Jul 16 18:13 inventory.txt
-rw-r--r-- 1 kali kali 161 Jul 16 19:36 secret_message
~/Castle/Main_building/Library/Merlin_s_office/Drawer
[mission 42] $ tr 'k-za-jK-ZA-J' 'a-zA-Z' < secret message > message
~/Castle/Main_building/Library/Merlin_s_office/Drawer
[mission 42] $ cat message
jgtg ku oa yknn:
aqw yknn igv oa ejguv, cpf gxgtavjkpi kv eqpvckpu.
vjku ejguv ku kp vjg egnnct, cpf vjg yqtf vq ocmg
kv tg-crrgct ku: zkap
ogtnkp vjg gpejcpvgt
~/Castle/Main_building/Library/Merlin_s_office/Drawer
[mission 42] $ tr 'l-za-kL-ZA-K' 'a-zA-Z' < secret_message > message
~/Castle/Main building/Library/Merlin s office/Drawer
[mission 42] $ cat message
ifsf jt nz xjmm:
zpv xjmm hfu nz diftu, boe fwfszuijoh ju dpoubjot.
uijt diftu jt jo uif dfmmbs, boe uif xpse up nblf
ju sf-bqqfbs jt: yjzo
nfsmjo uif fodiboufs
~/Castle/Main_building/Library/Merlin_s_office/Drawer
[mission 42] $ tr 'm-za-lM-ZA-L' 'a-zA-Z' < secret_message > message
~/Castle/Main_building/Library/Merlin_s_office/Drawer
[mission 42] $ cat message
here is my will:
you will get my chest, and everything it contains.
this chest is in the cellar, and the word to make
it re-appear is: xiyn
```

merlin the enchanter

```
~/Castle/Main_building/Library/Merlin_s_office/Drawer
[mission 42] $ gsh check
What's the key that will make Merlin's chest to appear?
xiyn
Congratulations, mission 42 has been successfully completed!
                 CONGRATULATIONS!
                 You have finished all the missions.
```

~/Castle/Main_building/Library/Merlin_s_office/Drawer [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'.