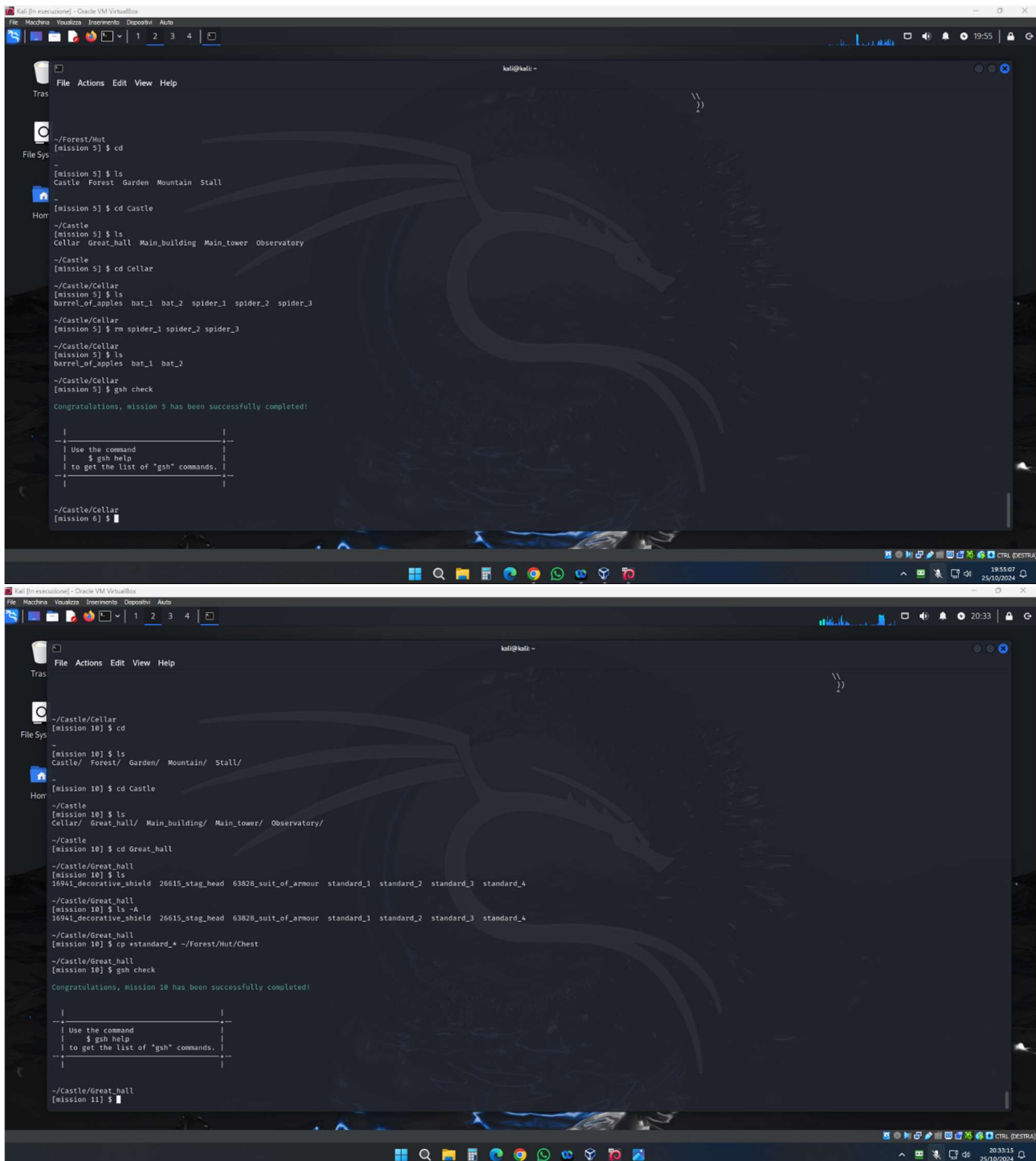


# REPORT DANIELE NIEDDU – ESERCIZIO 15/10/2024

## FINE MODULO



The image displays two screenshots of a Kali Linux terminal window, likely running a game or simulation. The terminal shows the user navigating through a directory structure and completing two missions.

**Top Screenshot:**

```
kali@kali: ~  
File Actions Edit View Help  
Tras  
File Sys  
~/Forest/Hut  
[mission 5] $ cd  
[mission 5] $ ls  
Castle Forest Garden Mountain Stall  
[mission 5] $ cd Castle  
~/Castle  
[mission 5] $ ls  
Cellar Great_hall Main_building Main_tower Observatory  
[mission 5] $ cd Cellar  
~/Castle/Cellar  
[mission 5] $ ls  
barrel_of_apples bat_1 bat_2 spider_1 spider_2 spider_3  
[mission 5] $ rm spider_1 spider_2 spider_3  
~/Castle/Cellar  
[mission 5] $ ls  
barrel_of_apples bat_1 bat_2  
[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] $
```

**Bottom Screenshot:**

```
kali@kali: ~  
File Actions Edit View Help  
Tras  
File Sys  
~/Castle/Cellar  
[mission 10] $ cd  
[mission 10] $ ls  
Castle/ Forest/ Garden/ Mountain/ Stall/  
[mission 10] $ cd Castle  
~/Castle  
[mission 10] $ ls  
Cellar/ Great_hall/ Main_building/ Main_tower/ Observatory/  
[mission 10] $ cd Great_hall  
~/Castle/Great_hall  
[mission 10] $ ls  
16941_decorative_shield 26615_stag_head 63828_suit_of_armour standard_1 standard_2 standard_3 standard_4  
[mission 10] $ ls -A  
16941_decorative_shield 26615_stag_head 63828_suit_of_armour standard_1 standard_2 standard_3 standard_4  
[mission 10] $ cp *standard_* ~/Forest/Hut/Chest  
~/Castle/Great_hall  
[mission 10] $ gsh check  
Congratulations, mission 10 has been successfully completed!  
|-----|  
| Use the command |  
| $ gsh help      |  
| to get the list of "gsh" commands. |  
|-----|  
~/Castle/Great_hall  
[mission 11] $
```

```
kali@kali:~$ gosh goal

Mission goal
Create a file named "journal.txt" in your chest and write a short message in it.
You can use this file to record your notes and solutions for the upcoming missions.
Details
"nano" is a command-line text editor. You can use it whenever you need to edit a file from the shell.
Useful commands
nano FILE
edit the file from the shell.
(if the file does not exist, it will be created.)
Keybindings are listed at the bottom of the screen (the "" symbol means "Control"). The most important ones are:
Control-x quit
Control-o save
Control-w search for a string
Remark: do not use Control-s or Control-z!

[mission 15] $ cd /Forest/Hut/Chest
bash: cd: /Forest/Hut/Chest: No such file or directory

[mission 15] $ cd ~/Forest/Hut/Chest
~/Forest/Hut/Chest
[mission 15] $ touch journal.txt
~/Forest/Hut/Chest
[mission 15] $ nano journal.txt
~/Forest/Hut/Chest
[mission 15] $ gosh check
Congratulations, mission 15 has been successfully completed!
```

```
Tab
The "Tabulation" key completes the name of a file or directory once you have typed the beginning of its name. This only works
if there is only one possible completion.
Tab-Tab
Pressing the "Tabulation" key twice successively shows a list of possible completions.

()=(

~/Forest/Hut/Chest
[mission 17] $ history
1 a START OF COMMANDS HISTORY
2 gosh goal
3 gosh check
4 pwd
5 ls
6 cd Castle
7 ls
8 cd Main_tower
9 ls
10 cd First_floor
11 ls
12 cd Second_floor
13 ls
14 cd Top_of_the_tower
15 ls
16 pwd
17 gosh check
18 gosh goal
19 pwd
20 cd
21 pwd
22 cd Castle
23 ls
24 cd Cellar
25 gosh check
26 gosh goal
27 cd
28 ls
29 cd Castle
30 ls
31 cd Cellar
32 ls
33 cd barrel_of_apples
34 cd
35 pwd
36 ls
37 Castle
38 cd Castle
```

```
38 cd Castle
39 ls
40 cd Great_hall
41 ls
42 cd -
43 ls
44 cd Mainb
45 cd Main_building
46 ls
47 gosh help
48 gosh reset
49 cd
50 pwd
51 cd Castle/Main_building/Throne_room
52 gosh check
53 gosh reset
54 cd
55 cd Castle/Main_building/Throne_room
56 gosh reset
57 gosh check
58 cd
59 cd Castle/Main_building/Throne_room
60 gosh check
61 gosh goal
62 cd
63 pwd
64 ls
65 cd Forest
66 ls
67 mkdir Hut
68 cd Hut
69 mkdir Chest
70 gosh check
71 gosh goal
72 cd
73 ls
74 cd Castle
75 ls
76 cd Cellar
77 ls
78 rm spider_1 spider_2 spider_3
79 ls
80 gosh check
81 history
82 gosh check
83 gosh goal
84 cd
85 ls
86 cd Garden
87 ls
88 mv coin_1 coin_2 coin_3 /Forest/Hut/Chest
89 cd
90 ls
```

```
89 cd
90 ls
91 cd Forest
92 ls
93 cd Hut
94 ls
95 cd Chest
96 cd
97 cd Garden
98 ls
99 mv coin_1 coin_2 coin_3 ~/Forest/Hut/Chest
100 gsh check
101 gsh goal
102 cd
103 cd Garden
104 ls
105 ls -A
106 mv .18452_coin_3 .29782_coin_1 .51877_coin_2 ~/Forest/Hut/Chest
107 gsh check
108 gsh goal
109 cd
110 pwd
111 ls
112 cd Castle
113 ls
114 cd Cellar
115 ls
116 ls -A
117 rm *.spider_*
118 ls
119 gsh check
120 gsh goal
121 ls
122 cd
123 ls
124 cd Castle
125 ls
126 cd Cellar
127 ls
128 ls -A
129 rm *.spider_*
130 rm *.spider_*
131 ls
132 gsh check
133 gsh goal
134 cd
135 ls
136 cd Castle
137 ls
138 cd Great_hall
139 ls
140 ls -A
141 cp *standard.* ~/Forest/Hut/Chest
```

```
140 ls -A
141 cp *standard.* ~/Forest/Hut/Chest
142 gsh check
143 gsh goal
144 cd
145 ls
146 cd Castle
147 ls
148 cd Great_hall
149 ls
150 ls -A
151 cp *.standard.* ~/Forest/Hut/Chest
152 gsh check
153 gsh goal
154 cd
155 cd Castle
156 ls
157 cd Main_tower
158 ls
159 cd First_floor
160 ls
161 ls -A
162 cat painting_vvg2DgTb
163 cat painting_serfJyZ
164 cat painting_3m0pFkP
165 cp painting_serfJyZ ~/Forest/Hut/Chest
166 gsh check
167 gsh goal
168 cd
169 cal 1928
170 gsh check
171 gsh goal
172 cd
173 alias ls='ls -A'
174 ls
175 ls
176 gsh check
177 gsh goal
178 cd ~/Forest/Hut/Chest
179 cd ~/Forest/Hut/Chest
180 touch journal.txt
181 nano journal.txt
182 gsh check
183 gsh goal
184 alias 'journal="nano ~/Forest/Hut/Chest/journal.txt"'
185 journal
186 gsh check
187 gsh goal
188 history
```

```
zsh: corrupt history file /home/kali/.zsh_history
kali@kali:~$
kali@kali:~$ bash gameshell.sh
warning: there is a more recent savefile
You can
(1) keep the given file (gameshell.sh)
(2) switch to the last savefile (gameshell-save.sh)
(3) abort
What do you want to do? [123] 2

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

[mission 17] $
```



```
File Actions Edit View Help
1) Also add a few fly aspects (Amanita muscaria).
2) And some destroying angels (Amanita virosa).
3) Mix in a few deadly mushrooms (Cortinarius rubellus).
4) Feel free to add in any colourful fungi you have on hand.
5) Let half of the water evaporate.
6) Season with a pinch of salt and a few herbs.
7) Serve hot in a bowl.

~/Mountain/Cave
[mission 25] $ gsh check
Your previous command does not give the expected result ...
Sorry, mission 25 hasn't been completed.

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

~/Mountain/Cave
[mission 25] $ tail -n 0 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 aspects (Amanita muscaria).
4) And some destroying angels (Amanita virosa).
5) Mix in a few deadly mushrooms (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 25] $ gsh check
Congratulations, mission 25 has been successfully completed!

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

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

```
File Actions Edit View Help
~/Mountain/Cave
[mission 26] $ history
1 2 START OF COMMANDS HISTORY
2 gsh goal
3 charmiglio
4 charmiglio; charmiglio; charmiglio;
5 charmiglio 0
6 charmiglio 0 charmiglio 0 charmiglio 0 charmiglio 0
7 gsh check
8 charmiglio 0 charmiglio 0 charmiglio 0 charmiglio 0
9 gsh check
10 gsh goal
11 Charmiglio abcd
12 Charmiglio smak
13 Charmiglio love
14 Charmiglio otra
15 gsh check
16 gsh goal
17 pwd
18 cd /Garden/Maze
19 cd /Garden/Maze
20 ls
21 ls
22 cd 518c37c425c98c64b5372ea/
23 ls
24 tree
25 cd ..
26 tree
27 cd ec9f6bb878ac8/d4c6df6817778a8fc556ff6b1b/
28 cd ec9f6bb878ac8/d4c6df6817778a8fc556ff6b1b/
29 cd ec9f6bb878ac8
30 ls
31 cd 9cfeba259f1673/
32 ls
33 ls d4c6df6817778a8fc556ff6b1b/
34 mv 00000_copper_coin_00000 -/Forest/Hut/Chest
35 cd d4c6df6817778a8fc556ff6b1b/
36 ls
37 mv 00000_copper_coin_00000 -/Forest/Hut/Chest
38 ls
39 gsh check
40 gsh goal
41 cd
42 ls -R
43 tree
44 pwd
45 ls
46 cd /Garden/Maze/039d7ccc1519836/a622d86fd/795dfe9fec98923865b31b7b7/
47 cd /Garden/Maze/039d7ccc1519836/a622d86fd/795dfe9fec98923865b31b7b7/
48 cd /Garden/Maze/039d7ccc1519836/
49 cd /Garden/Maze/039d7ccc1519836/a622d86fd/795dfe9fec98923865b31b7b7/
50 ls
51 mv 00000_silver_coin_00000 -/Forest/Hut/Chest
```

```
File Actions Edit View Help
50 ls
51 mv 00000_silver_coin_00000 -/Forest/Hut/Chest
52 gsh check
53 gsh goal
54 ls
55 find gold
56 find "gold"
57 tree
58 find files
59 find -name "gold"
60 ls
61 find -iname "gold"
62 find -iname "coin"
63 man -iname
64 man name
65 man -name
66 man find
67 find . -iname "gold"
68 find . -iname *gold*
69 cd /518c37c425c98c64b5372ea/d52521c7a33c10f/d5383fd2d69692fa86d6e5/Gold_Coin_
70 cd 518c37c425c98c64b5372ea/d52521c7a33c10f/d5383fd2d69692fa86d6e5/
71 ls
72 mv Gold_Coin_2 -/Forest/Hut/Chest
73 cd ../..
74 cd 508f8fb1799c/c927b351252aaf8fab54adf/66d7f19c5943a38/
75 ls
76 mv gold_coin_1 -/Forest/Hut/Chest
77 gsh check
78 gsh goal
79 ls
80 cd
81 ls
82 cd Castle
83 ls
84 cd
85 cd Forest
86 ls
87 cd
88 cd Mountain
89 ls
90 cd Cave
91 ls
92 cd Book_of_potions
93 ls
94 cd ..
95 cd servillus
96 cd Book_of_potions
97 cat table_of_contents
98 cat page_07
99 head page_07
100 cd ..
101 head page_07
102 head Book_of_potions/page_07
```



```
File Actions Edit View Help
80 cd
81 ls
82 cd Castle
83 cd
84 cd
85 cd Forest
86 ls
87 cd
88 cd Mountain
89 ls
90 cd Cave
91 ls
92 cd Book_of_potions
93 ls
94 cd
95 cd servillus
96 cd Book_of_potions
97 cat table_of_contents
98 cat page_07
99 head page_07
100 cd
101 head page_07
102 head Book_of_potions/page_07
103 gsh check
104 head Book_of_potions/page_07
105 gsh check
106 head -n 6 Book_of_potions/page_07
107 gsh check
108 gsh goal
109 tail -n 5 Book_of_potions/page_07
110 tail -n 7 Book_of_potions/page_07
111 tail -n 9 Book_of_potions/page_07
112 gsh check
113 tail -n 9 Book_of_potions/page_07
114 gsh check
115 tail -n 10 Book_of_potions/page_07
116 gsh check
117 ls
118 cd Book_of_potions
119 ls
120 cat table_of_contents
121 cat page_12
122 cd
123 tail Book_of_potions/page_12
124 gsh check
125 tail -n 11 Book_of_potions/page_12
126 gsh check
127 tail -n 9 Book_of_potions/page_12
128 gsh check
129 history
~/Mountain/Cave
[mission 26] $
```

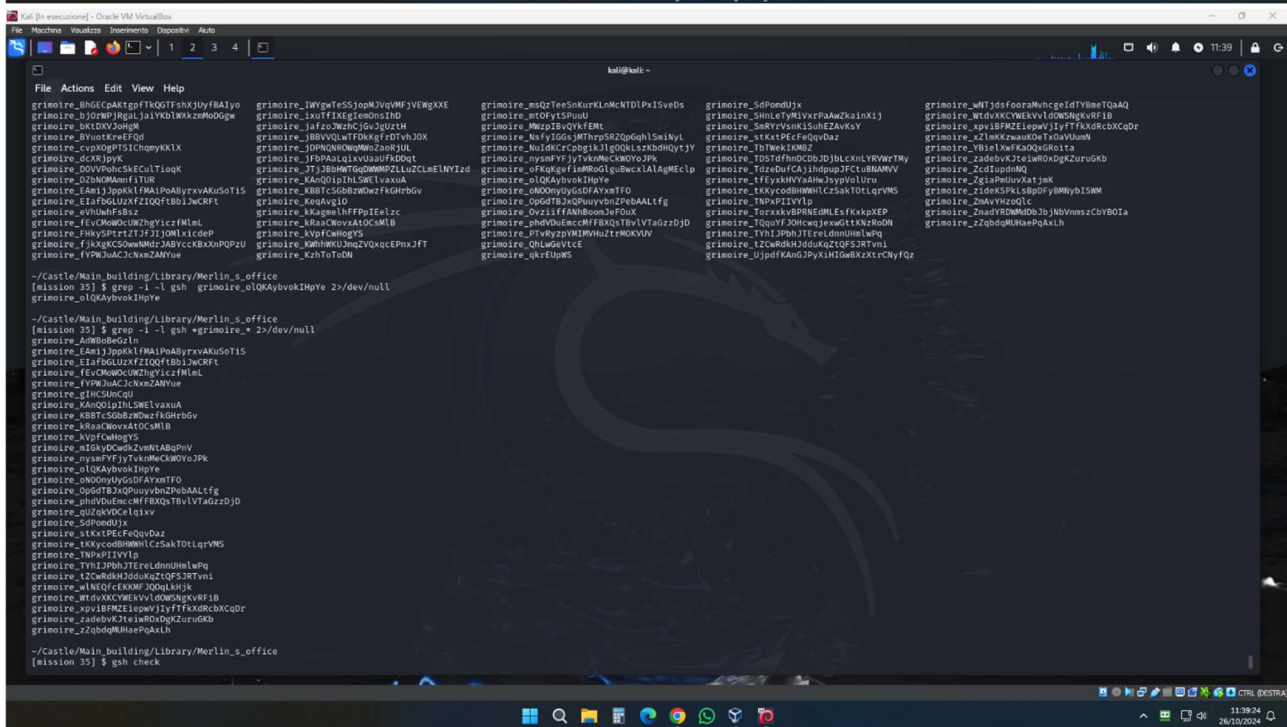
```
File Actions Edit View Help
0_+*/-
15-z
-9
+20+
0_+*/-
15-z
117605
~/Mountain/Cave
[mission 30] $
+20+
0_+*/-
15-z
kill
+20+
0_+*/-
15-z
-9 11
+20+
0_+*/-
15-z
8443
~/Mountain/Cave
[mission 30] $ ps
PID TTY          TIME CMD
36310 pts/0    00:00:00 gsh
36441 pts/0    00:00:00 bash
36404 pts/0    00:00:01 bash
119302 pts/0   00:00:00 ps
~/Mountain/Cave
[mission 30] $ gsh check
Congratulations, mission 30 has been successfully completed!
|
| Use the command
| $ gsh help
| to get the list of "gsh" commands.
|
~/Mountain/Cave
[mission 31] $
```

```
File Actions Edit View Help
1 $ START OF COMMANDS HISTORY
2 gsh goal
3 charmiglio
4 charmiglio; charmiglio; charmiglio;
5 charmiglio 0
6 charmiglio 0 charmiglio 0 charmiglio 0 charmiglio 0
7 gsh check
8 charmiglio 0 charmiglio 0 charmiglio 0 charmiglio 0
9 gsh check
10 gsh goal
11 Charmiglio abcd
12 Charmiglio smak
13 Charmiglio love
14 Charmiglio otra
15 gsh check
16 gsh goal
17 pwd
18 cd Garden/maze
19 cd Garden/Maze
20 ls
21 la
22 cd 318c37c425c98c64b5372ea/
23 la
24 tree
25 cd -
26 tree
27 cd ec9f6bb078ac0/dcf6df6817778a8fc556ff6b1b/
28 cd ec9f6bb078ac0/dcf6df6817778a8fc556ff6b1b/
29 cd ec9f6bb078ac0/
30 ls
31 cd 9cf6a4259f1673/
32 ls
33 ls dcf6df6817778a8fc556ff6b1b/
34 mv 00000_copper_coin_00000 ~/Forest/Hut/Chest
35 cd dcf6df6817778a8fc556ff6b1b/
36 ls
37 mv 00000_copper_coin_00000 ~/Forest/Hut/Chest
38 ls
39 gsh check
40 gsh goal
41 cd
42 ls -R
43 tree
44 pwd
45 ls
46 cd /Garden/Maze/039d7ccc1519836/a622d86fd/795dfe9fec98923865b31b7b7/
47 cd /Garden/Maze/039d7ccc1519836/a622d86fd/795dfe9fec98923865b31b7b7/
48 cd /Garden/Maze/039d7ccc1519836/
49 cd /Garden/Maze/039d7ccc1519836/a622d86fd/795dfe9fec98923865b31b7b7/
50 ls
51 mv 00000_silver_coin_00000 ~/Forest/Hut/Chest
52 gsh check
53 gsh goal
```

```
File Actions Edit View Help
52 gsh check
53 gsh goal
54 ls
55 find gold
56 find "gold"
57 tree
58 find files
59 find -name "gold"
60 ls
61 find -iname "gold"
62 find -iname "coin"
63 man -iname
64 man name
65 man -name
66 man find
67 find -iname "gold"
68 find -iname "gold4"
69 cd /516523a784c710d4f0d4e4c1d/52521c7433c10f/55383f42d69692fa86d6e5/gold_Coin_
70 cd 516523a784c710d4f0d4e4c1d/52521c7433c10f/55383f42d69692fa86d6e5/
71 ls
72 mv gold_Coin_2 ~/Forest/Hut/Chest
73 cd ~/././
74 cd 500f8fb1799c/c927b531525aafab54adf/66d7f19c5943a38/
75 ls
76 mv gold_Coin_1 ~/Forest/Hut/Chest
77 gsh check
78 gsh goal
79 ls
80 cd
81 ls
82 cd Castle
83 ls
84 cd
85 cd Forest
86 ls
87 cd
88 cd Mountain
89 ls
90 cd Cave
91 ls
92 cd Book_of_potions
93 ls
94 cd
95 cd servillus
96 cd Book_of_potions
97 cat table_of_contents
98 cat page_07
99 head page_07
100 cd ..
101 head page_07
102 head Book_of_potions/page_07
103 gsh check
104 head Book_of_potions/page_07
```

```
File Actions Edit View Help
103 gsh check
104 head Book_of_potions/page_07
105 gsh check
106 head -n 6 Book_of_potions/page_07
107 gsh check
108 gsh goal
109 tail -n 5 Book_of_potions/page_07
110 tail -n 7 Book_of_potions/page_07
111 tail -n 8 Book_of_potions/page_07
112 gsh check
113 tail -n 8 Book_of_potions/page_07
114 gsh check
115 tail -n 10 Book_of_potions/page_07
116 gsh check
117 ls
118 cd Book_of_potions
119 ls
120 cat table_of_contents
121 cat page_12
122 cd ..
123 tail Book_of_potions/page_12
124 gsh check
125 tail -n 21 Book_of_potions/page_12
126 gsh check
127 tail -n 9 Book_of_potions/page_12
128 gsh check
129 history
130 gsh goal
131 cd Book_of_potions
132 head table_of_contents
133 ls
134 cat page_01 page_02
135 cd ..
136 head -n 22 Book_of_potions/page_01 page_02
137 head -n 22 Book_of_potions/page_01 page_02
138 cat Book_of_potions/page_01 page_02
139 cat Book_of_potions/page_01 page_02
140 cat Book_of_potions/page_01 page_02
141 gsh check
142 cat Book_of_potions/table_of_contents
143 cat Book_of_potions/table_of_contents page_03
144 cat Book_of_potions/table_of_contents/page_03
145 cat Book_of_potions/page_03
146 cat Book_of_potions/page_04
147 cd ..
148 tail -n 7 Book_of_potions/page_03 | head Book_of_potions/page_04
149 cat Book_of_potions/page_03 | head Book_of_potions/page_04
150 cat Book_of_potions/page_03 | head Book_of_potions/page_04
151 cat Book_of_potions/page_03 | head Book_of_potions/page_04
152 cd Cave
153 cat Book_of_potions/page_03 | head Book_of_potions/page_04
154 cat Book_of_potions/page_03 | head Book_of_potions/page_04
```

```
File Actions Edit View Help
153 cat Book_of_potions/page_03 | head Book_of_potions/page_04
154 cat Book_of_potions/page_03 | head Book_of_potions/page_04
155 tail -n 7 Book_of_potions/page_03 | head Book_of_potions/page_04
156 cat Book_of_potions/page_03 | tail -n 7 | cat Book_of_potions/page_04
157 cat Book_of_potions/page_03 | tail -n 7 Book_of_potions/page_03 | cat Book_of_potions/page_04
158 tail -n 7 Book_of_potions/page_03 | cat Book_of_potions/page_04
159 tail -n 7 Book_of_potions/page_03 | cat Book_of_potions/page_04
160 tail -n 7 Book_of_potions/page_03 | cat Book_of_potions/page_04
161 tail -n 7 Book_of_potions/page_03 | tail Book_of_potions/page_04
162 tail -n 7 Book_of_potions/page_03 | tail Book_of_potions/page_04
163 cat Book_of_potions/page_03 | tail -n 7 Book_of_potions/page_03 | cat Book_of_potions/page_04
164 cat Book_of_potions/page_03 | tail -n 7 Book_of_potions/page_03 | cat Book_of_potions/page_04
165 tail -n 7 Book_of_potions/page_03 | cat Book_of_potions/page_04
166 gsh check
167 gsh goal
168 cd Book_of_potions
169 ls
170 cat table_of_contents
171 cat page_12
172 cd ..
173 head -n 6 Book_of_potions/page_13 | tail -n 3
174 cd ..
175 cd ..
176 head -n 6 Book_of_potions/page_13 | tail -n 3
177 gsh check
178 gsh goal
179 ps
180 kill 106737
181 clear
182 gsh check
183 ps
184 kill 108062
185 ps
186 gsh check
187 history
188 gsh goal
189 ps
190 kill 108898
191 ps
192 kill -9 108898
193 ps
194 gsh check
195 kill -9 108898ps
196 ps
197 ps
198 kill -9 111149
199 gsh check
200 gsh reset
201 ps
202 kill 112125
203 kill -9 112125
204 gsh check
205 ps
```





```
File Actions Edit View Help
~/Castle/Main_building/Library/Merlin's_office
[mission 36] $ history
1 # START OF COMMANDS HISTORY
2 gsh goal
3 ps tree
4 ps
5 ps tree PID
6 ps tree cp
7 ps tree $s
8 ps tree -p $s
9 gsh goal
10 cd
11 pwd
12 ls
13 cd Castle
14 ls
15 cd cellar
16 ps tree -p $s
17 ls
18 rm *.coal
19 ls
20 rm *.coal
21 ls
22 ps tree -p $s
23 kill 2016 2019 2020
24 ps tree -p $s
25 ls
26 rm *.coal
27 ls
28 gsh goal
29 gsh check
30 gsh goal
31 gsh check
32 gsh goal
33 tree
34 cd
35 tree
36 cd Castle/Main_building/Library
37 ls
38 cat Mathematics_101
39 gsh goal
40 gsh check < Mathematics_101
41 gsh check
42 gsh goal
43 ls
44 cd Merlin's_office
45 ls
46 ls
47 less
48 less grimoire_13340
49 less grimoire_13894 grimoire_4907 grimoire_6926 grimoire_8378 > Drawer/
50 less grimoire_13894 grimoire_4907 grimoire_6926 grimoire_8378 > Drawer/
```

```
File Actions Edit View Help
49 less grimoire_13894 grimoire_4907 grimoire_6926 grimoire_8378 > Drawer/
50 less grimoire_13894 grimoire_4907 grimoire_6926 grimoire_8378 > Drawer
51 less grimoire_13894 grimoire_4907 grimoire_6926 grimoire_8378 > Drawer/inventory.txt
52 less grimoire_13894 grimoire_4907 grimoire_6926 grimoire_8378 > Drawer/inventory.txt
53 cd Drawer
54 ls
55 cat inventory.txt
56 gsh reset
57 gsh goal
58 cd -
59 ls
60 less *grimoire_* > Drawer/inventory.txt
61 ls
62 cd Drawer
63 ls
64 cat inventory.txt
65 gsh check
66 gsh reset
67 gsh goal
68 cd ..
69 ls
70 ls *grimoire_* > Drawer/inventory.txt
71 cd Drawer
72 ls
73 cat inventory.txt
74 gsh check
75 gsh goal
76 cd ..
77 ls
78 cd
79 ls
80 cd -
81 cd ..
82 ls
83 cd -
84 ls
85 grep -l gsh *grimoire_*
86 grep -l gsh
87 grep -l gsh
88 grep -l gsh
89 cat grimoire_7f38b4WTGgQWMP2LlUzCtLnYIzd
90 cat grimoire_0lQAYbvokHpye
91 grep -i grimoire_0lQAYbvokHpye
92 grep -i grimoire_0lQAYbvokHpye
93 gsh goal
94 ls
95 cat grimoire_0lQAYbvokHpye
96 grep -i grimoire_0lQAYbvokHpye > /dev/null
97 grep -i grimoire_0lQAYbvokHpye > 2/dev/null
98 grep -i grimoire_0lQAYbvokHpye 2>/dev/null
99 grep -i *grimoire_* 2>/dev/null
100 ls
101 grep -i -l gsh grimoire_0lQAYbvokHpye 2>/dev/null
```

```
File Actions Edit View Help
55 cat inventory.txt
56 gsh reset
57 gsh goal
58 cd -
59 ls
60 less *grimoire_* > Drawer/inventory.txt
61 ls
62 cd Drawer
63 ls
64 cat inventory.txt
65 gsh check
66 gsh reset
67 gsh goal
68 cd ..
69 ls
70 ls *grimoire_* > Drawer/inventory.txt
71 cd Drawer
72 ls
73 cat inventory.txt
74 gsh check
75 gsh goal
76 cd ..
77 ls
78 cd
79 ls
80 cd -
81 cd ..
82 ls
83 cd -
84 ls
85 grep -l gsh *grimoire_*
86 grep -l gsh
87 grep -l gsh
88 grep -l gsh
89 cat grimoire_7f38b4WTGgQWMP2LlUzCtLnYIzd
90 cat grimoire_0lQAYbvokHpye
91 grep -i grimoire_0lQAYbvokHpye
92 grep -i grimoire_0lQAYbvokHpye
93 gsh goal
94 ls
95 cat grimoire_0lQAYbvokHpye
96 grep -i grimoire_0lQAYbvokHpye > /dev/null
97 grep -i grimoire_0lQAYbvokHpye > 2/dev/null
98 grep -i grimoire_0lQAYbvokHpye 2>/dev/null
99 grep -i *grimoire_* 2>/dev/null
100 ls
101 grep -i -l gsh grimoire_0lQAYbvokHpye 2>/dev/null
102 grep -i -l gsh *grimoire_* 2>/dev/null
103 gsh check
104 history

~/Castle/Main_building/Library/Merlin's_office
[mission 36] $
```

```
kali@kali: ~$ man COMMAND
man COMMAND
Display the manual of the command.

Important key bindings:
q      quit
Space  scroll down one page
/ STRING search for the string
n      find the next occurrence of the search string

Remark
-----
The description of the "find" command is deliberately kept short. You will find more information in the manual. (You can for example search for the string "-type" in the manual.)

~/Garden/Maze
[mission 48] $ cd 761ab71e04/cff8a231f0:90809b8a672e526c/ae085c23fc2f4da095ad01
~/Garden/Maze/761ab71e04/cff8a231f0:90809b8a672e526c/ae085c23fc2f4da095ad01
[mission 48] $ ls
5673
~/Garden/Maze/761ab71e04/cff8a231f0:90809b8a672e526c/ae085c23fc2f4da095ad01
[mission 48] $ mv 5673 ~/Forest/Amir/Chest
~/Garden/Maze/761ab71e04/cff8a231f0:90809b8a672e526c/ae085c23fc2f4da095ad01
[mission 48] $ gsh check
Congratulations, mission 48 has been successfully completed!
You are back at the entrance of the maze...

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

~/Garden/Maze
[mission 41] $
:::
ff02::1      ff02::2      ip6-allnodes ip6-allrouters ip6-localhost ip6-loopback kali      localhost

~/Garden/Maze
[mission 41] $
```

```
kali@kali: ~$ history
:::1      ff02::1      ff02::2      ip6-allnodes ip6-allrouters ip6-localhost ip6-loopback kali      localhost

~/Garden/Maze
[mission 41] $ history
1 $ START OF COMMANDS HISTORY
2 gsh goal
3 pstree
4 ps
5 pstree PID
6 pstree -p
7 pstree $$
8 pstree -p $$
9 gsh goal
10 cd
11 pwd
12 ls
13 cd Castle
14 ls
15 cd Goller
16 pstree -p $$
17 ls
18 rm *.coal*
19 ls
20 rm *.coal*
21 ls
22 pstree -p $$
23 kill 2016 2019 2020
24 pstree -p $$
25 ls
26 rm *.coal*
27 ls
28 gsh goal
29 gsh check
30 gsh goal
31 gsh check
32 gsh goal
33 tree
34 cd
35 tree
36 cd Castle/Main_building/Library
37 ls
38 cat Mathematics_101
39 gsh goal
40 gsh check < Mathematics_101
41 gsh check
42 gsh goal
43 ls
44 cd Merlin_s_office
45 ls
46 ls
47 less
48 less grimoire_13140
49 less grimoire_31094 grimoire_4907 grimoire_6926 grimoire_8378 > Drawer/

~/Garden/Maze
[mission 41] $
```

```
kali@kali: ~$ less grimoire_13140
48 less grimoire_13140
49 less grimoire_31094 grimoire_4907 grimoire_6926 grimoire_8378 > Drawer/
50 less grimoire_31094 grimoire_4907 grimoire_6926 grimoire_8378 > Drawer/
51 less grimoire_31094 grimoire_4907 grimoire_6926 grimoire_8378 > Drawer/
52 less grimoire_31094 grimoire_4907 grimoire_6926 grimoire_8378 > Drawer/inventory.txt
53 cd Drawer
54 ls
55 cat inventory.txt
56 gsh reset
57 gsh goal
58 cd -
59 less *grimoire_* > Drawer/inventory.txt
60 ls
61 cd Drawer
62 cat inventory.txt
63 gsh check
64 gsh reset
65 gsh goal
66 cd -
67 ls *grimoire_* > Drawer/inventory.txt
68 cd Drawer
69 cat inventory.txt
70 gsh check
71 gsh goal
72 cd -
73 ls
74 cd
75 ls
76 cd
77 ls
78 cd
79 ls
80 cd
81 cd
82 cd
83 cd
84 ls
85 grep -l gsh *grimoire_*
86 grep -l gsh
87 grep -l gsh
88 grep -l gsh
89 cat grimoire_3138b8e70d90000711uZCim1NV1zd
90 cat grimoire_oIQAYbvkIMpve
91 grep -l grimoire_oIQAYbvkIMpve
92 grep -l grimoire_oIQAYbvkIMpve
93 gsh goal
94 ls
95 cat grimoire_oIQAYbvkIMpve
96 grep -l grimoire_oIQAYbvkIMpve > /dev/null
97 grep -l grimoire_oIQAYbvkIMpve > 2/dev/null
98 grep -l grimoire_oIQAYbvkIMpve 2>/dev/null
99 grep -l -l grimoire_* 2>/dev/null
100 ls
```

```
File Actions Edit View Help
99 grep -i -l -e grimoire_* 2>/dev/null
100 ls
101 grep -i -l -e grimoire_* /usr/share/doc/grimoire_* 2>/dev/null
102 grep -i -l -e grimoire_* 2>/dev/null
103 gsh check
104 history
105 gsh goal
106 ls
107 cd
108 ls
109 cd
110 ls
111 cd Castle
112 ls
113 cd Observatory
114 ls
115 ./merlin
116 cat star_chart
117 cd star_chart
118 gsh goal
119 ./merlin > stdout
120 ./merlin
121 ./merlin 2> stderr
122 gsh check
123 ./merlin
124 ./merlin > stdout
125 ./merlin 2> stderr
126 gsh check
127 gsh check
128 ./merlin 2> stderr
129 gsh check > stderr
130 gsh goal
131 cd
132 tree
133 cd Castle/Main_building/Throne_room
134 ls
135 cd King_quarters
136 cd King_quarter
137 cd King_quarter
138 gsh goal
139 ls -l
140 cd /??/ King_quarter
141 cd King_quarter
142 gsh check
143 gsh goal
144 ls
145 ls
146 cat .secret_note
147 chmod 777 .secret_note
148 cat .secret_note
149 gsh check
150 gsh goal
151 ls
152 cd ..
153 ls
154 cd Safe
155 chmod 777 Safe
156 cd Safe
157 ls
158 ls -l
159 cat crown
160 chmod 777 crown
161 ls -l
162 cat crown
163 mv crown ~/Forest/Hut/Chest
164 ls
165 ls -l
166 gsh check
167 gsh goal
168 cd
169 ls
170 cd Garden
171 ls
172 ls
173 tree
174 tree
175 gsh goal
176 find
177 find -type
178 find -type f
179 cat 9a819c4b94db7c29f/95aee8739dc314083d614a78e18/0157aac7878af6fd53bb6aabb786b/7651
180 cat 6a044db707cda851d05f9033bf43d718a5bdc6d5aac/84983c93/29384
181 cat 68874fc865ed2/2cd3b7833eb592463/a5859e83d2/2380
182 cat 761ab71e04/f19f70694399a7b92e37aec75cec11/9897c3508588/42627
183 cat 761ab71e04/cff8a231f8c9009b84e672e526c/ae085c23cf2f4da095ad01/5673
184 cat 761ab71e04/2c7d720f46c6ae95cf52e0871/7721e476e65796a385a949/44014
185 gsh goal
186 cd 761ab71e04/cff8a231f8c9009b84e672e526c/ae085c23cf2f4da095ad01
187 ls
188 mv 5673 ~/Forest/Hut/Chest
189 gsh check
190 history
~/Garden/Maze
[mission 41] $
```

```
File Actions Edit View Help
141 cd King_quarter
142 gsh check
143 gsh goal
144 ls
145 ls
146 cat .secret_note
147 chmod 777 .secret_note
148 cat .secret_note
149 gsh check
150 gsh goal
151 ls
152 cd ..
153 ls
154 cd Safe
155 chmod 777 Safe
156 cd Safe
157 ls
158 ls -l
159 cat crown
160 chmod 777 crown
161 ls -l
162 cat crown
163 mv crown ~/Forest/Hut/Chest
164 ls
165 ls -l
166 gsh check
167 gsh goal
168 cd
169 ls
170 cd Garden
171 ls
172 ls
173 tree
174 tree
175 gsh goal
176 find
177 find -type
178 find -type f
179 cat 9a819c4b94db7c29f/95aee8739dc314083d614a78e18/0157aac7878af6fd53bb6aabb786b/7651
180 cat 6a044db707cda851d05f9033bf43d718a5bdc6d5aac/84983c93/29384
181 cat 68874fc865ed2/2cd3b7833eb592463/a5859e83d2/2380
182 cat 761ab71e04/f19f70694399a7b92e37aec75cec11/9897c3508588/42627
183 cat 761ab71e04/cff8a231f8c9009b84e672e526c/ae085c23cf2f4da095ad01/5673
184 cat 761ab71e04/2c7d720f46c6ae95cf52e0871/7721e476e65796a385a949/44014
185 gsh goal
186 cd 761ab71e04/cff8a231f8c9009b84e672e526c/ae085c23cf2f4da095ad01
187 ls
188 mv 5673 ~/Forest/Hut/Chest
189 gsh check
190 history
~/Garden/Maze
[mission 41] $
```

```
File Actions Edit View Help
the king bought a walking stick for 5 coppers.
Adrien Aubernard bought a sick for 3 coppers.
Omar Aubernard bought a stool for 4 coppers.
Eugene Metivier bought a piece of soap for 2 coppers.
Hugues Lemaire bought a wooden spoon for 5 coppers.
Berenger Larssonmeur bought a bag flour for 5 coppers.
Cloud Legros bought a bottle of cider for 4 coppers.
Monsieur Courtois bought a goat for 5 coppers.
Pacome Metivier bought a horse for 3 coppers.
(3)
~/Stall
[mission 43] $ grep -r -v -i "PAID" . | wc -l
1
(4)
~/Stall
[mission 43] $ grep -r -v "PAID" . | wc -l
66
(5)
~/Stall
[mission 43] $ gsh reset
|-----|
| Use the command |
| $ gsh help      |
| to get the list of "gsh" commands. |
|-----|
(9)
~/Stall
[mission 43] $ grep -r -v "PAID" . | wc -l
75
(1)
~/Stall
[mission 43] $ gsh check
How many unpaid items are there? 75
Congratulations, mission 43 has been successfully completed!
|-----|
| Use the command |
| $ gsh help      |
| to get the list of "gsh" commands. |
|-----|
~/Stall
[mission 44] $
```

```
File Actions Edit View Help
[mission 44] $ tr "abcdefghijklmnopqrstuvwxyz" "opqrstuvwxyzabcdefghijklmnopqrstuvwxyz" < secret_message
jg8g ku oa ykmi:
sqw yknn igv oa ejguv, cpf gsgtavjpi kv eqgvckpu.
vju ejguv ku kp vjg egmct, cpf vjg yqtf vq ocng
kv tg-crrgct ku: ffla
ogtnkp vjg gpejcpvt

~/Castle/Main_building/Library/Merlin_s_office/Drawer
[mission 44] $ gsh reset

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

~/Castle/Main_building/Library/Merlin_s_office/Drawer
[mission 44] $ ls
ink_and_scroll inventory.txt secret_message

~/Castle/Main_building/Library/Merlin_s_office/Drawer
[mission 44] $ cat secret_message
vjsfs wg am kwz2:
mcl kwz2 gsh aa qvqgh, obr sjsfhwvbu wh qchqwbq.
hwvg qvqgh wg wh hvs qvz2of, obr hvs kcfz hc aqys
wh f-xoddsol wgi gpo
asfrwb hvs shqvobhsf

~/Castle/Main_building/Library/Merlin_s_office/Drawer
[mission 44] $ tr "abcdefghijklmnopqrstuvwxyz" "opqrstuvwxyzabcdefghijklmnopqrstuvwxyz" < secret_message
jg8g ku oa ykmi:
sqw yknn igv oa ejguv, cpf gsgtavjpi kv eqgvckpu.
vju ejguv ku kp vjg egmct, cpf vjg yqtf vq ocng
kv tg-crrgct ku: uade
ogtnkp vjg gpejcpvt

~/Castle/Main_building/Library/Merlin_s_office/Drawer
[mission 44] $ tr "abcdefghijklmnopqrstuvwxyz" "opqrstuvwxyzabcdefghijklmnopqrstuvwxyz" < secret_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: syba
merlin the enchanter

~/Castle/Main_building/Library/Merlin_s_office/Drawer
[mission 44] $
:::1          ffd2::1          ffd2::2          ip6-allnodes          ip6-allrouters          ip6-localhost          ip6-loopback          kali          localhost

~/Castle/Main_building/Library/Merlin_s_office/Drawer
[mission 44] $
```

```
File Actions Edit View Help
~/Castle/Main_building/Library/Merlin_s_office/Drawer
[mission 44] $ ffd2::1          ffd2::2          ip6-allnodes          ip6-allrouters          ip6-localhost          ip6-loopback          kali          localhost
:::1

~/Castle/Main_building/Library/Merlin_s_office/Drawer
[mission 44] $ gsh check
what's the key that will make Merlin's chest to appear?
syba

Congratulations, mission 44 has been successfully completed!

|-----|
| CONGRATULATIONS! |
|                   |
| You have finished all the missions. |
|                   |
|-----|

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

~/Castle/Main_building/Library/Merlin_s_office/Drawer
[mission 45] $
```

```
File Actions Edit View Help
~/Castle/Main_building/Library/Merlin_s_office/Drawer
[mission 45] $ history
1 # START OF COMMANDS HISTORY
2 gsh goal
3 ps
4 ps
5 ps
6 ps
7 ps
8 ps
9 ps
10 cd
11 cd
12 ls
13 cd Castle
14 ls
15 cd Cellar
16 ps
17 ls
18 ls
19 ls
20 ls
21 ls
22 ps
23 kill 2018 2019 2020
24 ps
25 ls
26 ls
27 ls
28 gsh goal
29 gsh check
30 gsh goal
31 gsh check
32 gsh goal
33 tree
34 cd
35 tree
36 cd Castle/Main_building/Library
37 ls
38 cat Mathematics_101
39 gsh goal
40 gsh check - Mathematics_101
41 gsh check
42 gsh goal
43 ls
44 cd Merlin_s_office
45 ls
46 ls
47 less
48 less grimoire_33148
49 less grimoire_31894 grimoire_4907 grimoire_6926 grimoire_8378 > Drawer/
```

```
kali@kali:~$ less grimoire_313a0
48 less grimoire_313a0 grimoire_4907 grimoire_6926 grimoire_8378 > Drawer/
49 less grimoire_313a0 grimoire_4907 grimoire_6926 grimoire_8378 > Drawer
50 less grimoire_313a0 grimoire_4907 grimoire_6926 grimoire_8378 > /Drawer
51 less grimoire_313a0 grimoire_4907 grimoire_6926 grimoire_8378 > /Drawer
52 less grimoire_313a0 grimoire_4907 grimoire_6926 grimoire_8378 > Drawer/inventory.txt
53 cd Drawer
54 ls
55 cat inventory.txt
56 gsh reset
57 gsh goal
58 cd ..
59 ls
60 less *grimoire_* > Drawer/inventory.txt
61 ls
62 cd Drawer
63 ls
64 cat inventory.txt
65 gsh check
66 gsh reset
67 gsh goal
68 cd ..
69 ls
70 ls *grimoire_* > Drawer/inventory.txt
71 cd Drawer
72 ls
73 cat inventory.txt
74 gsh check
75 gsh goal
76 cd ..
77 ls
78 cd
79 ls
80 cd -
81 cd -
82 ls
83 cd
84 ls
85 grep -l gsh *grimoire_*
86 grep -l gsh
87 grep -l 'gsh'
88 grep -l 'gsh'
89 cat grimoire_37120bhwTGGQWMP2LLuZCLeLNYzid
90 cat grimoire_oIQKAYbvkIHpye
91 grep -l grimoire_oIQKAYbvkIHpye
92 grep -l grimoire_oIQKAYbvkIHpye
93 gsh goal
94 ls
95 cat grimoire_oIQKAYbvkIHpye
96 grep -l grimoire_oIQKAYbvkIHpye > /dev/null
97 grep -l grimoire_oIQKAYbvkIHpye > 2/dev/null
98 grep -l grimoire_oIQKAYbvkIHpye 2/dev/null
99 grep -l grimoire_* 2>/dev/null
100 ls
```

```
kali@kali:~$ grep -i -l *grimoire_* 2>/dev/null
100 ls
101 grep -i -l gsh grimoire_oIQKAYbvkIHpye 2>/dev/null
102 grep -i -l gsh *grimoire_* 2>/dev/null
103 gsh check
104 history
105 gsh goal
106 ls
107 cd Drawer
108 ls
109 cd
110 cd Castle
111 ls
112 cd Observatory
113 ls
114 ./merlin
115 cat start_chart
116
117 cat star_chart
118 gsh goal
119 ./merlin > stdout
120 ./merlin
121 ./merlin 2> stderr
122 gsh check
123 ./merlin
124 ./merlin > stdout
125 ./merlin 2> stderr
126 goal check
127 gsh check
128 ./merlin 2> stderr
129 gsh check < stderr
130 gsh goal
131 cd
132 tree
133 cd Castle/Main_building/throne_room
134 ls
135 cd King_quarters
136 cd King_quarter
137 cd Kings_quarter
138 gsh goal
139 ls -l
140 chmod 777 Kings_quarter
141 cd Kings_quarter
142 gsh check
143 gsh goal
144 ls
145 ls
146 cat secret_note
147 chmod 777 secret_note
148 cat secret_note
149 gsh check
150 gsh goal
151 ls
```

```
kali@kali:~$ gsh goal
150 gsh goal
151 ls
152 cd ..
153 ls
154 cd Safe
155 chmod 777 Safe
156 cd Safe
157 ls
158 ls -l
159 cat crown
160 chmod 777 crown
161 ls -l
162 cat crown
163 mv crown ~/Forest/Hut/Chest
164 ls
165 ls -l
166 gsh check
167 gsh goal
168 cd
169 ls
170 cd Garden
171 ls
172 cd Maze
173 ls
174 tree
175 gsh goal
176 find
177 find -type f
178 find -type f
179 cat 9a8d39b94db7c29f/95ae08739dc334803dd14a78e18/0157aac7678af6f053bb6a3b8766b/7651
180 cat 6ae16d04707cc0da85/d0b5f96330ef3d716a3b0c6dc3aac/84983c93/29304
181 cat 6801f6e0ed70c407013bae52403/45859a035f/23308
182 cat 761ab71e0a/f19f70094399a702e37aac75cec11f/9897c35085588/46227
183 cat 761ab71e0a/cff8a231f8c9009b0ae672e526c/ae085233cf2f4da095ad01/5073
184 cat 761ab71e0a/2c7d720f46c6fae95fa52e0971/7721e476e65796a385a949/44034
185 gsh goal
186 cd 761ab71e0a/cff8a231f8c9009b0ae672e526c/ae085233cf2f4da095ad01
187 ls
188 mv 5073 ~/Forest/Hut/Chest
189 gsh check
190 history
191 gsh goal
192 ls
193 find -type f
194 gsh goal
195 grep "diamond"
196 man grep
197 grep -F -l -i "diamond"
198 cd 2027dc346027888c00e81ce47a25e9c743a1939a8
199 ls
200 cat 5c16322a
201 mv 5c16322a ~/Forest/Hut/Chest
202 gsh check
```



```
kali@kali:~$ mv 5c16322a ~/Forest/Hut/Chest
201 gsh check
202 gsh goal
203 cd
204 cd
205 cd Castle
206 ls
207 cd
208 ls
209 cd Castle
210 ls
211 cd
212 ls
213 gsh goal
214 cd Stall
215 ls
216 gsh goal
217 grep -r -l -i "King" .
218 cat 1c8a7fbd9af50f5_c_r_o_l_l_1c8a7fbd9af50f5
219 grep "King" 1c8a7fbd9af50f5_c_r_o_l_l_1c8a7fbd9af50f5
220 gsh goal
221 grep -v "PAID"
222 grep -r -v -l -i "PAID" .
223 cat 1c8a7fbd9af50f5_c_r_o_l_l_1c8a7fbd9af50f5
224 gsh goal
225 ls | grep -r -v -l -i "PAID"
226 ls | grep -r -v -l -i "PAID" 1c8a7fbd9af50f5_c_r_o_l_l_1c8a7fbd9af50f5
227 ls | grep -v -l -i "PAID"
228 grep -r -v -l -i "PAID"
229 ls 1c8a7fbd9af50f5_c_r_o_l_l_1c8a7fbd9af50f5
230 gsh "King" 1c8a7fbd9af50f5_c_r_o_l_l_1c8a7fbd9af50f5
231 gsh goal
232 gsh reset
233 grep -r -v -l -i "PAID"
234 ls 8c40b6a5250b106_s_c_r_o_l_l_8c40b6a5250b106 | grep "King" | grep -v "PAID"
235 grep "King" | grep -v "PAID" 8c40b6a5250b106_s_c_r_o_l_l_8c40b6a5250b106
236 grep "King" 8c40b6a5250b106_s_c_r_o_l_l_8c40b6a5250b106 | grep -v "PAID"
237 gsh check
238 gsh reset
239 grep -r -v -l -i "PAID"
240 grep "King" 934e9c9d0e60fd2 | grep -v "PAID"
241 gsh check
242 gsh goal
243 ls
244 gsh goal
245 grep -r -v -l -i "PAID" . | wc
246 gsh check
247 grep -r -v -l -i "PAID" . | wc
248 gsh check
249 gsh reset
250 grep -r -v -l -i "PAID" . | wc
251 gsh check
252 grep -r -v -l -i "PAID"
253 grep -v "PAID" 5b9a6b5cace_s_c_r_o_l_l_5b9a6b5cace6a0d0
```

```
kali@kali:~$
243 ls
244 gsh goal
245 grep -r -v -l -i "PAID" . | wc
246 gsh check
247 grep -r -v -l -i "PAID" . | wc
248 gsh check
249 gsh reset
250 grep -r -v -l -i "PAID" . | wc
251 gsh check
252 grep -r -v -l -i "PAID"
253 grep -v "PAID" 5b9a6b5cace_s_c_r_o_l_l_5b9a6b5cace6a0d0
254 gsh check
255 grep -r -v -l -i "PAID" . | wc
256 grep -r -v -l -i "PAID"
257 grep -v "PAID" 000845d32454_s_c_r_o_l_l_000845d324549ec
258 grep -r -v -l -i "PAID" . | wc -l
259 grep -r -v "PAID" . | wc -l
260 gsh reset
261 grep -r -v "PAID" . | wc -l
262 gsh check
263 gsh goal
264 cd
265 ls
266 cd Castle
267 cd Main_buildings
268 cd Main_building
269 ls
270 cd library
271 ls
272 cd Merlin_s_office
273 ls
274 ls
275 gsh goal
276 cd Drawer
277 ls
278 cat secret_message
279 ls
280 tr "a-z" "n-m" < secret_message
281 tr "a-z" "k-z" < secret_message
282 tr "a-z" "nopqrstuvwxyzabcedfghijklm" < secret_message
283 tr "abcedfghijklmnopqrstuvwxyz" "nopqrstuvwxyzabcedfghijklm" < secret_message
284 tr "abcedfghijklmnopqrstuvwxyz" "nopqrstuvwxyzabcedfghijklm" < secret_message
285 gsh reset
286 ls
287 cat secret_message
288 tr "abcedfghijklmnopqrstuvwxyz" "nopqrstuvwxyzabcedfghijklm" < secret_message
289 tr "abcedfghijklmnopqrstuvwxyz" "nopqrstuvwxyzabcedfghijklm" < secret_message
290 gsh check
291 gsh goal
292 history
~/Castle/Main_building/Library/Merlin_s_office/Drawer
[mission 45] $
```