S3L2
Struttura del gioco: Il gioco è strutturato in più livelli, l'avanzamento di livello richiede il completamento di particolari missioni. Per ogni livello si può controllare la missione ed il suo stato con i comandi:

(**Completare 10 livelli)**

Comandi di Navigazione e Gestione File:

- ls: Mostra i file e le directory nella directory corrente.
- ls -a: Elenca tutti i file, inclusi quelli nascosti (che iniziano con un punto).
- cd -: Torna alla directory precedente.
- cd ..: Vai alla directory superiore (una directory indietro).
- cd (Location) Spostati nella directory indicata
- cd /: Vai alla directory radice.
- mkdir: Crea una nuova directory.
- rm: Rimuove (cancella) file o directory.
- mv file1 file2: Sposta o rinomina file1 come file2.
- ~ : Rappresenta la directory iniziale (home).
- pwd: Mostra il percorso corrente.
- Tab: Autocompleta comandi e nomi di file.
- Tab-Tab: Mostra tutte le possibili opzioni per l'autocompletamento.

Wildcards (caratteri jolly):

- *: Sostituisce una qualsiasi sequenza di caratteri (incluso vuoto).
    - Esempio: file* trova file1, file2.
- ?: Sostituisce un solo carattere.
    - Esempio: file? trova file1, file2 (ma non file10).
- . (punto): Nei nomi dei file, indica che il file è nascosto. Esempio: .*spider* trova i file nascosti con "spider" nel nome altrimenti non sarebbero individuabili

Comandi GameShell:

- gsh goal: Mostra l'obiettivo della missione.
- gsh check: Verifica se l'obiettivo della missione è stato raggiunto.
- gsh reset: Riavvia la missione.
- gsh help: Mostra aiuto per i comandi di gsh.
- gsh exit: Esci dal gioco.
- Control-d: Termina l'esecuzione del terminale o di un programma.

Comandi cp:

- cp : Copia un file in una directory.

```
         .-.
        /   \
   |\_. |        Mission goal
  |\| | /|       =========
   `___'
        |        Go the castle's cellar.
        |
        |        Secondary objective
        |        =================
        |
        |        Understand the difference between ``cd -`` and ``cd ..``.
        |
        |        Useful commands
        |        ============
        |
        |          cd -
        |            Jump back to the location you were in prior to your last move.
        |
        |          cd ..
        |            Move to the parent directory (one step back along the path to your current location).
        |
        |          pwd
        |            See the path to your current location.
        |
        |
        |
```

```
[use 'gsh help' to get a list of available commands]
[mission 2] $ cd

[use 'gsh help' to get a list of available commands]
[mission 2] $ ls
Castle  Forest  Garden  Mountain  Stall

[use 'gsh help' to get a list of available commands]
[mission 2] $ cd castle
bash: cd: castle: No such file or directory

[use 'gsh help' to get a list of available commands]
[mission 2] $ cd Castle

[use 'gsh help' to get a list of available commands]
[mission 2] $ ls
Cellar  Great_hall  Main_building  Main_tower  Observatory

[use 'gsh help' to get a list of available commands]
[mission 2] $ cd Cellar

[use 'gsh help' to get a list of available commands]
[mission 2] $ list
Command 'list' not found, did you mean:
  command 'mlist' from deb mblaze
  command 'dist' from deb nmh
  command 'flist' from deb nmh
  command 'last' from deb wtmpdb
  command 'lift' from deb lift
  command 'gist' from deb yorick
  command 'hist' from deb loki
Try: sudo apt install <deb name>

[use 'gsh help' to get a list of available commands]
[mission 2] $ ls
barrel_of_apples

[use 'gsh help' to get a list of available commands]
[mission 2] $ gsh check

Congratulations, mission 2 has been successfully completed!


   |                        |
 --+------------------------+--
   | Use the command        |
```

```
/ \
|   | Mission goal
\_ | ==========
   |
   | Go back to the starting location and then go to the throne room using only two commands.
   |
   | Remark
   | ======
   |
   | You may experiment with as many commands as you want, but
   | to validate the mission the following conditions need to be met:
   |    - the second to last command takes you to the starting point,
   |    - the last command takes you directly to the throne room.
   |
   | Useful commands
   | ==============
   |
   | cd
   |    Move back to the starting location.
   |
   | cd LOCATION1/LOCATION2/LOCATION3
   |    Make several moves in one command.
   |
   | Remark
   | ======
   |
   | UPPERCASE words appearing in commands are meta-variables: you need to replace them by appropriate (string)
   | values.
   |  /
   \_/_____
```

```
~/Forest
[mission 4] $ cd

~
[mission 4] $ cd Forest

~/Forest
[mission 4] $ mkdir Hut

~/Forest
[mission 4] $ ls
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] $ █
```

```
       Get rid of all the spiders that are crawling in the cellar. Again, do not do not disturb the bats.


       Shell patterns
       ═══════════════

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

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

       Those wildcards can be used to denote lists of existing files / directories in the current working directory.

       For example: if the current folder contains
              file-1 Folder-1 file-14 potato
       then
         *      ⟶   file-1 Folder-1 file-14 potato
         *1     ⟶   file-1 Folder-1
         *o*    ⟶   Folder-1 potato
         x*     ⟶   error, no matching file
         *-?    ⟶   file-1 Folder-1
         *-??   ⟶   file-14
```

```
~
[mission 8] $ cd Castle/Cellar

~/Castle/Cellar
[mission 8] $ ls
10505_spider_38   11858_spider_37   13312_bat_2      16442_spider_20   18527_spider_3    20933_spider_35   22576_bat_4      26555_spider_1    28616_spider_16   30803_spider_12   31974_spider_15   32702_spider_18   4568_spider_32   9487_spider_43
10892_spider_9    12768_spider_22   14675_spider_34   16790_spider_11   18604_spider_6    21673_spider_48   24253_bat_5      27057_spider_30   29253_spider_17   31382_spider_13   32167_spider_41   3536_spider_24    674_spider_19    9667_spider_7
11181_bat_3       12848_spider_46   15891_spider_36   17130_spider_21   19032_spider_14   21963_spider_5    24931_spider_49   28253_spider_4    2940_spider_2     31760_spider_31   32419_spider_39   3622_spider_44    7932_spider_47   9719_spider_26
11418_spider_29   13006_spider_27   16045_spider_40   17823_spider_45   19582_spider_42   22156_spider_33   25295_spider_50   28331_spider_28   30699_spider_25   31848_spider_8    32671_spider_10   3973_spider_23    8871_bat_1

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

~/Castle/Cellar
[mission 8] $ ls
11181_bat_3  13312_bat_2  22576_bat_4  24253_bat_5  8871_bat_1

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

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

```
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                         /   \
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    \/
    (                                                                                                      )
    )   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".                                                     )
    )                                                                                                       (
    (                                                                                                       )
   /\''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''\
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    \/_____/
```

~
[mission 10] $ cd Castle/Great_hall

~/Castle/Great_hall
[mission 10] $ ls
14046_suit_of_armour 48987_stag_head 9997_decorative_shield standard_1 standard_2 standard_3 standard_4

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

~/Castle/Great_hall
[mission 10] $ cd

~
[mission 10] $ cd Forest/Hut/Chest

~/Forest/Hut/Chest
[mission 10] $ ls
coin_1 coin_2 coin_3 standard_1 standard_2 standard_3 standard_4

~/Forest/Hut/Chest
[mission 10] $ gsh check

Congratulations, mission 10 has been successfully completed!