WORK IN PROGRESS.

FARO' UN PUSH SU GITHUB APPENA ARRIVO INTORNO AL LIVELLO 20 AGGIUNGENDO COMEMNTI E I LIVELLI MANCANTI

L'esercizio di oggi richiede di eseguire

```
 /------------------------------------------------------------------------\
| /  __  \                                                      /  __  \ |
|/ \  \  |   Mission goal                                      |  / /|
|\ \__/|   ============                                        |\__/ |
|  |   |                                                        |   |  |
|  |   |   Go to the top of the main tower of the castle.       |   |  |
|  |   |                                                        |   |  |
|  |   |                                                        |   |  |
|  |   |   Useful commands                                      |   |  |
|  |   |   ==============                                       |   |  |
|  |   |                                                        |   |  |
|  |   |   cd LOCATION                                          |   |  |
|  |   |     Move to the given location.                        |   |  |
|  |   |     Remark: ``cd`` is an abbreviation for "change directory". |  |
|  |   |                                                        |   |  |
|  |   |   pwd                                                  |   |  |
|  |   |     Show the path to your current location.            |   |  |
|  |   |     Remark: ``pwd`` is an abbreviation for "print working directory". |  |
|  |   |                                                        |   |  |
|  |   |   ls                                                   |   |  |
|  |   |     Show a list of locations that are currently accessible. |  |
|  |   |     Remark: ``ls`` is an abbreviation of "list".       |   |  |
|  |   |                                                        |   |  |
|  |   |   gsh check                                            |   |  |
|  |   |     Check if the mission objective has been achieved.  |   |  |
|  |   |                                                        |   |  |
|  |   |   gsh reset                                            |   |  |
|  |   |     Restart the mission from the beginning.            |   |  |
|  |   |                                                        |   |  |
|  |   |                                                        |   |  |
|  |   |   Remarks                                              |   |  |
|  |   |   -------                                              |   |  |
|  |   |                                                        |   |  |
|  |   |   UPPERCASE words appearing in commands are meta-variables: you need to replace them by appropriate |  |
|  |   |   (string) values.                                     |   |  |
|  |   |                                                        |   |  |
|  |   |   Most filesystems treat uppercase and lowercase characters differently. Make sure you use the correct |  |
|  |   |   path.                                                |   |  |
| \  \  |                                                      |  /  / |
|  \__/ ------------------------------------------------------------  \__/ |
 \------------------------------------------------------------------------/
```

```
[use 'gsh help' to get a list of available commands]
[mission 1] $ ls
Castle  Forest  Garden  Mountain  Stall

[use 'gsh help' to get a list of available commands]
[mission 1] $ cd Castle/

[use 'gsh help' to get a list of available commands]
[mission 1] $ ls
Cellar  Great_hall  Main_building  Main_tower  Observatory

[use 'gsh help' to get a list of available commands]
[mission 1] $ tree
.
├── Cellar
│   └── barrel_of_apples
├── Great_hall
├── Main_building
│   ├── Library
│   │   ├── Greek_Latin_and_other_modern_languages
│   │   ├── Mathematics_101
│   │   └── Merlin_s_office
│   │       ├── Drawer
│   │       │   └── ink_and_scroll
│   │       └── candle
│   └── Throne_room
│       └── Kings_quarter
├── Main_tower
│   └── First_floor
│       └── Second_floor
│           └── Top_of_the_tower
└── Observatory
    └── star_chart

14 directories, 6 files

[use 'gsh help' to get a list of available commands]
[mission 1] $ |
```

```
[use 'gsh help' to get a list of available commands]
[mission 1] $ tree
.
├── Cellar
│   └── barrel_of_apples
├── Great_hall
├── Main_building
│   ├── Library
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│   │   ├── Mathematics_101
│   │   └── Merlin_s_office
│   │       ├── Drawer
│   │       │   └── ink_and_scroll
│   │       └── candle
│   └── Throne_room
│       └── Kings_quarter
├── Main_tower
│   └── First_floor
│       └── Second_floor
│           └── Top_of_the_tower
└── Observatory
    └── star_chart

14 directories, 6 files

[use 'gsh help' to get a list of available commands]
[mission 1] $ cd Main_tower/First_floor/Second_floor/Top_of_the_tower/
```

```
[use 'gsh help' to get a list of available commands]
[mission 2] $ cd -
/home/marco/gameshell/World/Castle

[use 'gsh help' to get a list of available commands]
[mission 2] $ tree
.
├── Cellar
│   └── barrel_of_apples
├── Great_hall
├── Main_building
│   ├── Library
│   │   ├── Greek_Latin_and_other_modern_languages
│   │   ├── Mathematics_101
│   │   └── Merlin_s_office
│   │       ├── Drawer
│   │       │   └── ink_and_scroll
│   │       └── candle
│   └── Throne_room
│       └── Kings_quarter
├── Main_tower
│   └── First_floor
│       └── Second_floor
│           └── Top_of_the_tower
└── Observatory
    └── star_chart

14 directories, 6 files

[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] $ gsh goal
```

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

Congratulations, mission 2 has been successfully completed!
```

```
[use 'gsh help' to get a list of available commands]
[mission 3] $ cd

[use 'gsh help' to get a list of available commands]
[mission 3] $ cd Castle/Main_building/Throne_room/

[use 'gsh help' to get a list of available commands]
[mission 3] $ gsh check

Congratulations, mission 3 has been successfully completed!

                _.--.              Well done!!!
            _.-'_:-'||
         _.-'_.-::::'||              From now on, the current location will be shown just before the command prompt.
     _.-:'_.-::::::'  ||
  .'`-._-:::::::'      ||
 /.'`;|:::::::'        ||_
 || ||:::::::'     _.;._'-._
 || ||:::::'  _.-!oo @.!-._'-.
```
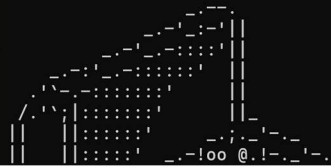
```
~
[mission 4] $ ls
Castle  Forest  Garden  Mountain  Stall

~
[mission 4] $ cd Forest/

~/Forest
[mission 4] $ tree
.

0 directories, 0 files

~/Forest
[mission 4] $ mkdir Hut

~/Forest
[mission 4] $ cd Hut/

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

~/Forest/Hut
[mission 4] $ gsh goal
```

```
                                                               |\_/|   |
                                                               |   |  /|
      .-----------------------------------------------------------------.  |
     /  .-.                                                               |  |
    |  /   \                                                              |  |
    | |\_. |    Mission goal                                             |  |
    \|  | /|    ============                                             |  |
     |  `---'|                                                           |  |
     |       |    Build a "Hut" in the forest, and then build a "Chest" in the hut.  |
     |       |                                                           |  |
     |       |                                                           |  |
     |       |    Useful commands                                        |  |
     |       |    ===============                                        |  |
     |       |                                                           |  |
     |       |    mkdir DIRECTORY                                        |  |
     |       |      Create a new directory inside the current directory. |  |
     |       |      Remark: ``mkdir`` is an abbreviation for "make directory".  |  |
     |       |                                                           |  |
     |       |                                                           | /
     |       |-----------------------------------------------------------'
     \
```

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

Congratulations, mission 4 has been successfully completed!

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

~/Castle/Cellar
[mission 5] $ rm spider_1 spider_2 spider_3

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

Congratulations, mission 5 has been successfully completed!


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


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

```
 .-------------------------------------------------------------------------------'|
/  .-.  |                                                                          |
| /   \ |                                                                          |
| |\_. |  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.                                       |
|       |                                                                          |
|       |                                                                          |
|       |  Useful commands                                                        |
|       |  ===============                                                        |
|       |                                                                          |
|       |  mv FILE1 FILE2 ... FILEn DIRECTORY                                      |
|       |    Move the files to the directory.                                     |
|       |    Remark: ``mv`` is an abbreviation of "move".                         |
|       |                                                                          |
|       |  ~                                                                       |
|       |    The "~" symbol is an abbreviation for the initial directory.         |
|       |    Example: wherever you are, ``~/Tavern`` denotes the directory (or file) "Tavern" in the initial |
|       |    directory.                                                           |
```

```
~
[mission 6] $ mv Garden/coin_1 Garden/coin_2 Garden/coin_3 Forest/Hut/Chest/

~
[mission 6] $ gsh check

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

```
~/Garden
[mission 7] $ ls -a
.   ..   .29349_coin_2   .365_coin_3   .42569_coin_1   Flower_garden   Maze   Shed

~/Garden
[mission 7] $
```

```
~
[mission 7] $ mv Garden/.29349_coin_2 Garden/.365_coin_3 Garden/.42569_coin_1 Forest/Hut/Chest/

~
[mission 7] $ gsh goal
```

```
\     Mission goal
|     ============
_/|
  |  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 directo
  |
  |  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
  |
/ |_____
```

```
Castle
├── Cellar
│       ├── 10118_spider_40
│       ├── 10288_spider_47
│       ├── 10814_spider_2
│       ├── 10819_bat_2
│       ├── 11575_spider_9
│       ├── 1244_spider_38
│       ├── 12727_spider_35
│       ├── 14246_spider_46
│       ├── 15269_spider_24
│       ├── 15296_spider_31
│       ├── 15573_spider_16
│       ├── 1616_spider_49
│       ├── 16365_spider_36
│       ├── 1682_bat_3
│       ├── 16986_spider_50
│       ├── 17029_spider_21
│       ├── 1704_spider_3
│       ├── 18962_spider_17
│       ├── 19323_spider_43
│       ├── 19362_spider_34
│       ├── 19467_spider_1
│       ├── 21517_spider_7
│       ├── 21531_spider_6
│       ├── 22144_bat_5
│       ├── 22660_spider_10
```

```
~/Castle/Cellar
[mission 8] $ rm *spider
rm: cannot remove '*spider': No such file or directory

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

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

Congratulations, mission 8 has been successfully completed!

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

```
        /_____
 (O)===)><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><)==(O)
        \/'''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''/
     (                                                                                         (
     )  Mission goal                                                                           )
     (  ============                                                                           (
     )                                                                                         )
     (  The spiders are getting clever: they found a way to hide.                              (
     )  Get rid of all the spiders that are hiding in the cellar without disturbing 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.                                )
     (                                                                                         (
     )                                                                                         )
     (  Remark                                                                                 (
     )  ------                                                                                 )
     (                                                                                         (
     )  The wildcards "*" and "?" don't see hidden files, you need to add an explicit dot at the start of the pattern. )
     (                                                                                         (
        /\'''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''''\
 (O)===)><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><><)==(O)
        \/_____/
```

```
~/Castle/Cellar
[mission 9] $ tree -la

.
├──── .10150_spider_31
├──── .10196_spider_26
├──── .10245_spider_3
├──── .10284_spider_35
├──── .13487_spider_15
├──── .14157_spider_11
├──── .15239_spider_45
├──── .15340_bat_3
├──── .16596_spider_42
├──── .17368_spider_48
├──── .17548_spider_17
├──── 18302_spider_25
```

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

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

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

```
 /\ _____.
|  | 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".                                                                  |.
|  |_____|.
|  /                                                                                                                 /.
 \_/_____/.
```

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

~
[mission 10] $ ls
Castle/ Forest/ Garden/ Mountain/ Stall/

~
[mission 10] $ gsh check

Congratulations, mission 10 has been successfully completed!