

In questa presentazione illustrerò il procedimento per installare su Kali Linux un gioco per familiarizzare con i comandi della Shell.

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:

- **# gsh goal** > mostra la missione per il livello corrente
  - **# gsh check** > controlla lo stato della missione attuale (se completata o meno)

Presentazione a cura di Benedetto Bordonaro

# MISSION 1

Lo scopo di questa missione è arrivare alla cartella **Top\_pf\_the\_tower**

The screenshot shows a dual-pane interface. On the left, a system information window displays details about the computer, including the device name (benedettobordonaro), processor (Intel(R) Core(TM) i3-1005G1 CPU @ 1.20GHz), RAM (8,00 GB (7,79 GB utilizzabile)), and operating system (Sistema operativo a 64 bit, processore basato su x64). A terminal window on the right shows the user's session:

```
kali@kali: ~
File Actions Edit View Help
Remarks
UPPERCASE words appearing in commands are meta-variables: you need t
Most filesystems treat uppercase and lowercase characters differentl
[mission 1] $ cd Castle/
[mission 1] $ LS
LS: command not found
[mission 1] $ ls
Cellar Great_hall Main_building Main_tower Observatory
[mission 1] $ cd Main_tower/First_floor/Second_floor/Top_of_the_tower/
[mission 1] $ gsh check
Congratulations, mission 1 has been successfully completed!
```

# MISSION 2

Il scopo di questa missione è entrare dentro la cartella **Cellar**



A screenshot of a terminal window on a Kali Linux desktop. The title bar says 'kali@kali: ~'. The terminal shows the following session:

```
[mission 2] $ cd
[mission 2] $ cd Castle/Cellar/
[mission 2] $ gsh check
Congratulations, mission 2 has been successfully completed!
```

# MISSION 3

Lo scopo di questa missione è di arrivare alla cartella **Throne\_room** in solo 2 passaggi.



A screenshot of a terminal window on a Kali Linux system. The window title is 'File Actions Edit View Help'. The terminal prompt is 'kali@kali: ~'. The user has run the command 'gsh check' which resulted in the following output:

```
| Use the command
| $ gsh help
| to get the list of "gsh" commands.
[mission 3] $ cd
[mission 3] $ cd Castle/Main_building/Throne_room/
[mission 3] $ gsh check
Congratulations, mission 3 has been successfully completed!
```

# MISSION 4

lo scopo di questa missione e di recarci dentro la cartella Forest e creare una cartella **Hut**, creata quest'ultima entriamo e creiamo un 'ultima cartella dal nome **Chest**

The image shows a laptop screen with two main windows. On the left is a 'Sistema' (System) window displaying hardware specifications:

Specifiche dispositivo	
Nome dispositivo	benedettobordonaro
Processore	Intel(R) Core(TM) i3-1005G1 CPU @ 1.20GHz 1.19 GHz
RAM installata	8,00 GB (7,79 GB utilizzabile)
ID dispositivo	FCA00801-ABCB-40B2-9414-ED69EE1FF7CD
ID prodotto	00356-02701-99809-AAOEM
Tipo sistema	Sistema operativo a 64 bit, processore basato su x64
Penna e tocco	Nessun input penna o tocco disponibile per

A 'Rinomina questo PC' (Rename this PC) button is visible above the system info window. On the right is a terminal window titled 'kali@kali: ~' showing the following command history:

```
File Actions Edit View Help
~/Forest
[mission 4] $ mkdir Hut
~/Forest
[mission 4] $ cd Hut
~/Forest/Hut
[mission 4] $ mkdir Chest
~/Forest/Hut
[mission 4] $ cd Chest/
~/Forest/Hut/Chest
[mission 4] $ gsh check
Congratulations, mission 4 has been successfully completed!
```

# MISSION 5

Lo scopo di questa missione è eliminare tutti i ragni che stanno dentro la cartella **Cellar**

benedettobordonaro  
Aspire A315-56

Rinomina questo PC

Copia ^

Specifiche dispositivo

Nome dispositivo benedettobordonaro

Processore Intel(R) Core(TM) i3-1005G1 CPU @ 1.20GHz 1.19 GHz

RAM installata 8,00 GB (7,79 GB utilizzabile)

ID dispositivo FCA00801-ABCB-40B2-9414-ED69EE1FF7CD

ID prodotto 00356-02701-99809-AAOEM

Tipo sistema Sistema operativo a 64 bit, processore basato su x64

```
kali@kali:~  
File Actions Edit View Help  
barrel_of_apples bat_1 bat_2 spider_1 spider_2 spider_3  
~/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.  
+--+
```

# MISSION 6

Lo scopo di questa missione è muovere tutti i coins nella directory **Chest**

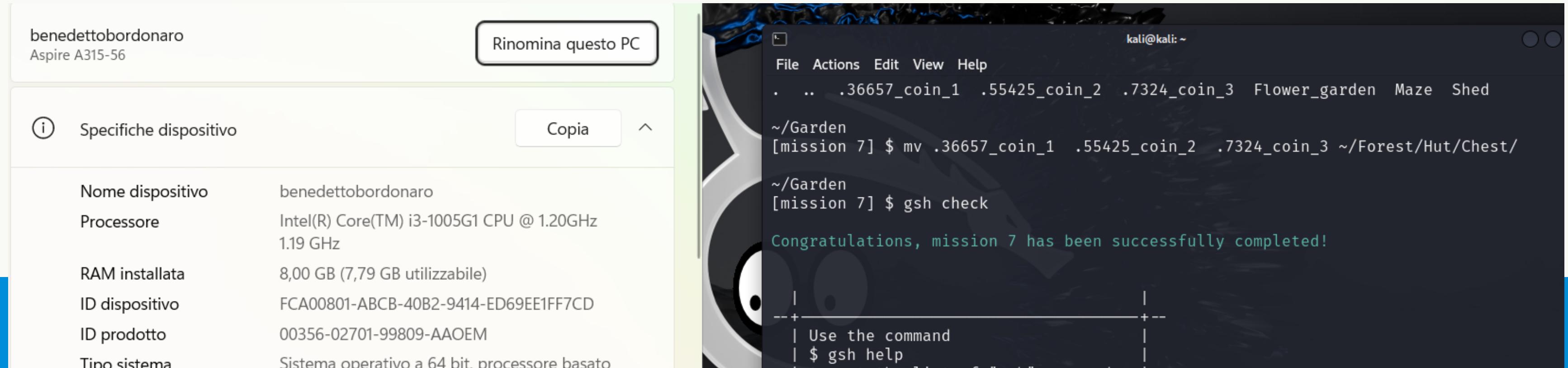
The image shows a dual-monitor setup. The left monitor displays a Linux desktop environment with a light blue background. A terminal window titled 'Rinomina questo PC' (Rename this PC) is open, showing system information for a laptop named 'Aspire A315-56'. The right monitor displays a terminal window titled 'kali@kali:~'. The terminal output is as follows:

```
File Actions Edit View Help
~/Garden
[mission 6] $ mv coin_1 coin_2 coin_3 ~/Forest/Hut/Chest/
~/Garden
[mission 6] $ gsh check
Congratulations, mission 6 has been successfully completed!
```

The terminal also includes a note at the bottom: 'Use the command'.

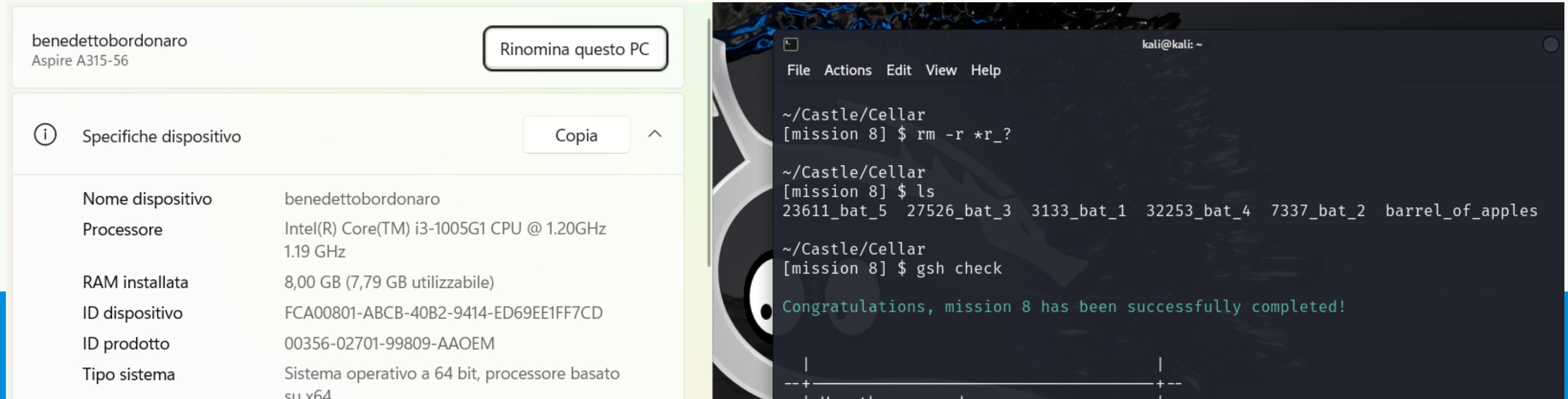
# MISSION 7

Lo scopo di questa missione è di muovere tutti i coins nascosti e di metterli dentro la directory **Chest**



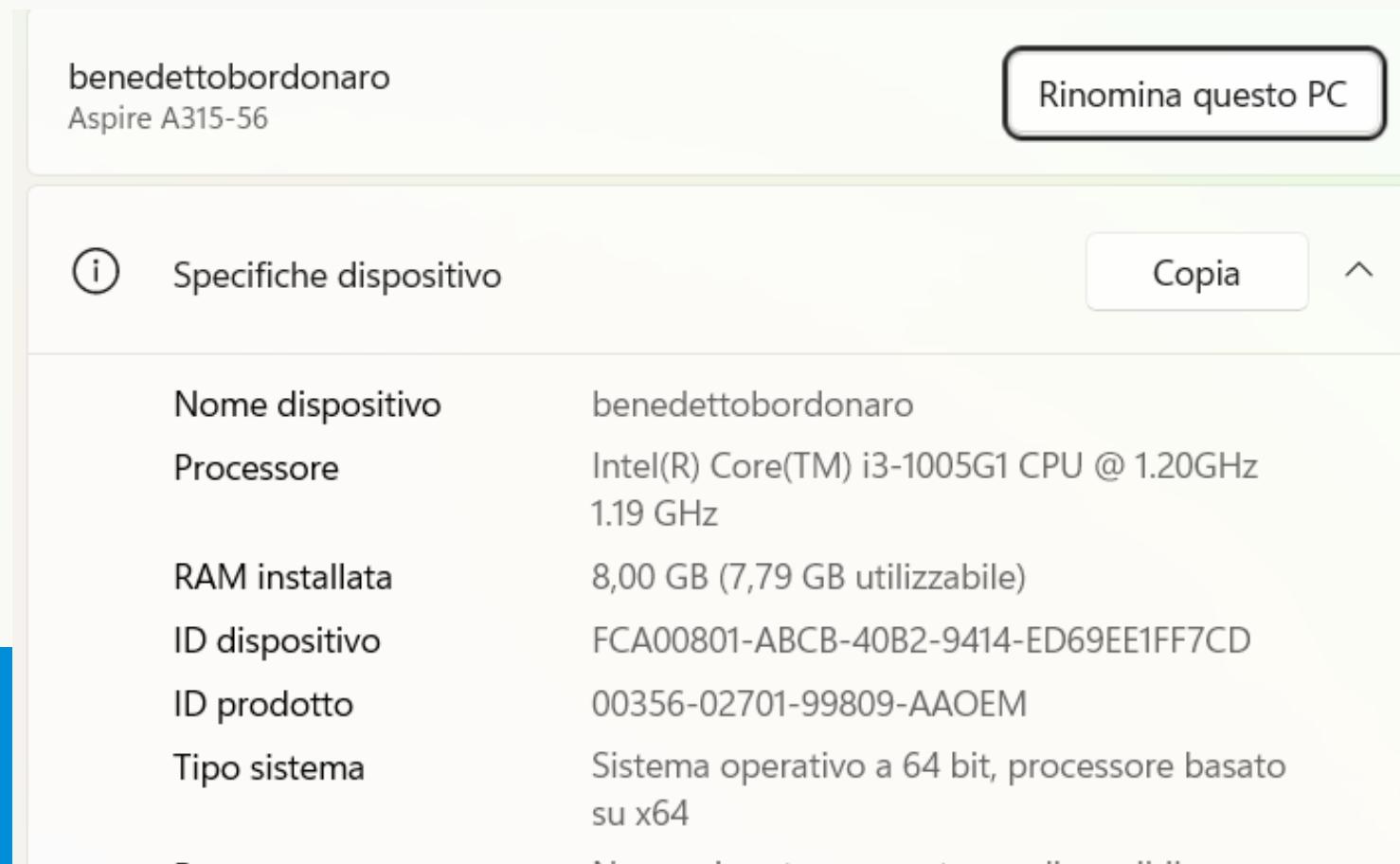
# MISSION 8

Lo scopo di questa missione è eliminare tutti i file contenenti la r in un unico comando.



# MISSION 9

Lo scopo di questa missione è di eliminare tutti i file nascosti che hanno in comune la r.



A screenshot of a terminal window on a Kali Linux desktop. The terminal shows the following session:

```
[mission 9] $ rm -r .*r_?
~/Castle/Cellar
[mission 9] $ ls
23611_bat_5 27526_bat_3 3133_bat_1 32253_bat_4 7337_bat_2 barrel_of_apples

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

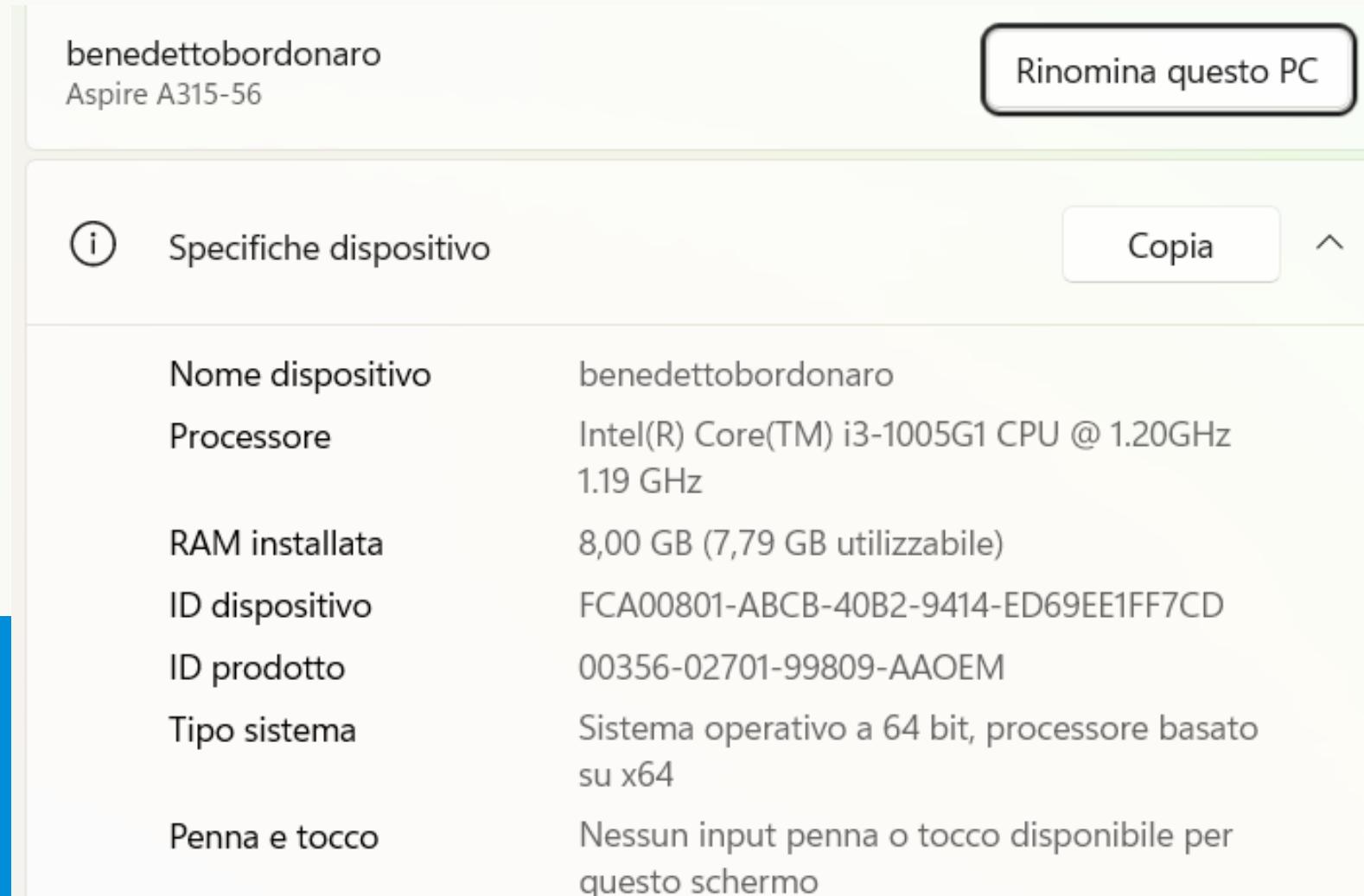
Congratulations, mission 9 has been successfully completed!
```

The terminal then displays a congratulatory message and a warning about the `ls` command:

```
Congratulations !
From now on, the ``ls`` command will automatically
```

# MISSION 10

Lo scopo di questa missione è di copiare tutti i file standard e di inserirli nella directory **Chest**



A screenshot of a terminal window on a Kali Linux system. The terminal shows the following session:

```
kali@kali: ~
File Actions Edit View Help
~
[mission 10] $ cd Castle/Great_hall/
~/Castle/Great_hall
[mission 10] $ ls
33792_stag_head 46348_decorative_shield 57298_suit_of_armour standard
~/Castle/Great_hall
[mission 10] $ cp standard_1 standard_2 standard_3 standard_4 ~/Fore
~/Castle/Great_hall
[mission 10] $ gsh check
Congratulations, mission 10 has been successfully completed!
```

# MISSION 11

Lo scopo di questa missione è copiare tutti i file che hanno in comune una y e di inserirli nella directory **Chest**

benedettobordonaro  
Aspire A315-56

Rinomina questo PC

i Specifiche dispositivo

Copia ^

Nome dispositivo	benedettobordonaro
Processore	Intel(R) Core(TM) i3-1005G1 CPU @ 1.20GHz 1.19 GHz
RAM installata	8,00 GB (7,79 GB utilizzabile)
ID dispositivo	FCA00801-ABCB-40B2-9414-ED69EE1FF7CD
ID prodotto	00356-02701-99809-AAOEM
Tipo sistema	Sistema operativo a 64 bit, processore basato su x64
Penna e tocco	Nessun input penna o tocco disponibile per

```
kali@kali: ~
File Actions Edit View Help

~/Castle/Great_hall
[mission 11] $ ls -a
./ 11817_decorative_shield 24703_tapestry_08 27742_tapestry_
.. / 23919_tapestry_07 26341_suit_of_armour 44310_tapestry_

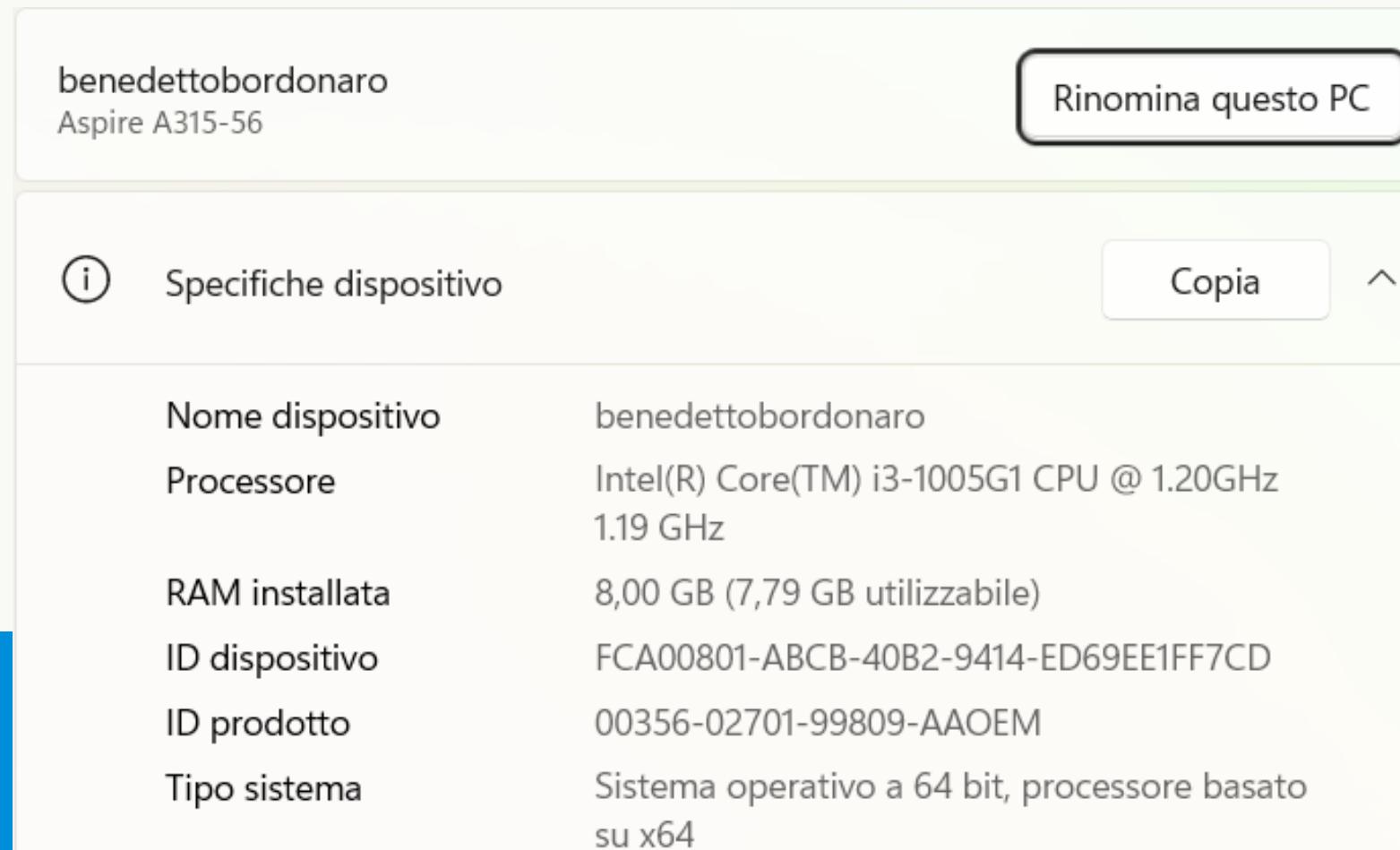
~/Castle/Great_hall
[mission 11] $ cp -r *y_?? ~/Forest/Hut/Chest/
~/Castle/Great_hall
[mission 11] $ gsh check

Congratulations, mission 11 has been successfully completed!

| |
+-----+-----+
| Use the command
| $ gsh help
| |
```

# MISSION 12

Lo scopo di questa missione dobbiamo recarci nella cartella First\_floor ed esaminare i dipinti, copiamo il più vecchio nella directory **Chest**



A screenshot of a terminal window on a Kali Linux system. The terminal prompt is 'kali@kali: ~'. The user has run the command 'cp painting\_SHZZXiqr ~/Forest/Hut/Chest/'. This is followed by the command 'gsh check'. The terminal then displays a message: 'Congratulations, mission 12 has been successfully completed!'. At the bottom, there's a note: 'Use the command \$ gsh help to get the list of "gsh" commands.'

```
File Actions Edit View Help
~/Castle/Main_tower/First_floor
[mission 12] $ cp painting_SHZZXiqr ~/Forest/Hut/Chest/
~/Castle/Main_tower/First_floor
[mission 12] $ gsh check

Congratulations, mission 12 has been successfully completed!

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

# MISSION 13

Testo del paragrafo

## Sistema > Informazioni sul sistema

benedettobordonaro  
Aspire A315-56

Rinomina questo PC

Specifiche dispositivo

Copia ^

Nome dispositivo	benedettobordonaro
Processore	Intel(R) Core(TM) i3-1005G1 CPU @ 1.20GHz 1.19 GHz
RAM installata	8,00 GB (7,79 GB utilizzabile)
ID dispositivo	FCA00801-ABCB-40B2-9414-ED69EE1FF7CD
ID prodotto	00356-02701-99809-AAOEM
Tipo sistema	Sistema operativo a 64 bit, processore basato su x64

```
kali@kali: ~
File Actions Edit View Help
29 30 31           26 27 28 29 30           24 25 26 27 28 29 30
31

[mission 13] $ gsh check
What was the day of the week for the 09-19-2034?
1 : Monday
2 : Tuesday
3 : Wednesday
4 : Thursday
5 : Friday
6 : Saturday
7 : Sunday
Your answer: 2

Congratulations, mission 13 has been successfully completed!

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

# MISSION 14

Lo scopo di questa missione è di creare un alias che contenga un comando specifico al suo interno.

The image shows two windows side-by-side. On the left is a Windows Control Panel window titled 'Specifiche dispositivo' (Device specifications) for a 'Aspire A315-56'. It lists various system components and their details. On the right is a terminal window from the Kali Linux operating system. The terminal shows a user named 'kali' at the prompt 'kali@kali:~'. The user has run several commands: 'gsh help' to see available commands, 'alias la='ls -A'' to create an alias for listing all files, and 'gsh check' to verify the alias. The terminal concludes with a message: 'Congratulations, mission 14 has been successfully completed!'. A large blue vertical bar is visible on the far left edge of the screen.

benedettobordonaro  
Aspire A315-56

Rinomina questo PC

Copia ^

i Specifiche dispositivo

Nome dispositivo benedettobordonaro

Processore Intel(R) Core(TM) i3-1005G1 CPU @ 1.20GHz 1.19 GHz

RAM installata 8,00 GB (7,79 GB utilizzabile)

ID dispositivo FCA00801-ABCB-40B2-9414-ED69EE1FF7CD

ID prodotto 00356-02701-99809-AAOEM

Tipo sistema Sistema operativo a 64 bit, processore basato su x64

Penna e tocco Nessun input penna o tocco disponibile per questo schermo

Collegamenti correlati Dominio o gruppo di lavoro Protezione sistema

Impostazioni di sistema avanzate

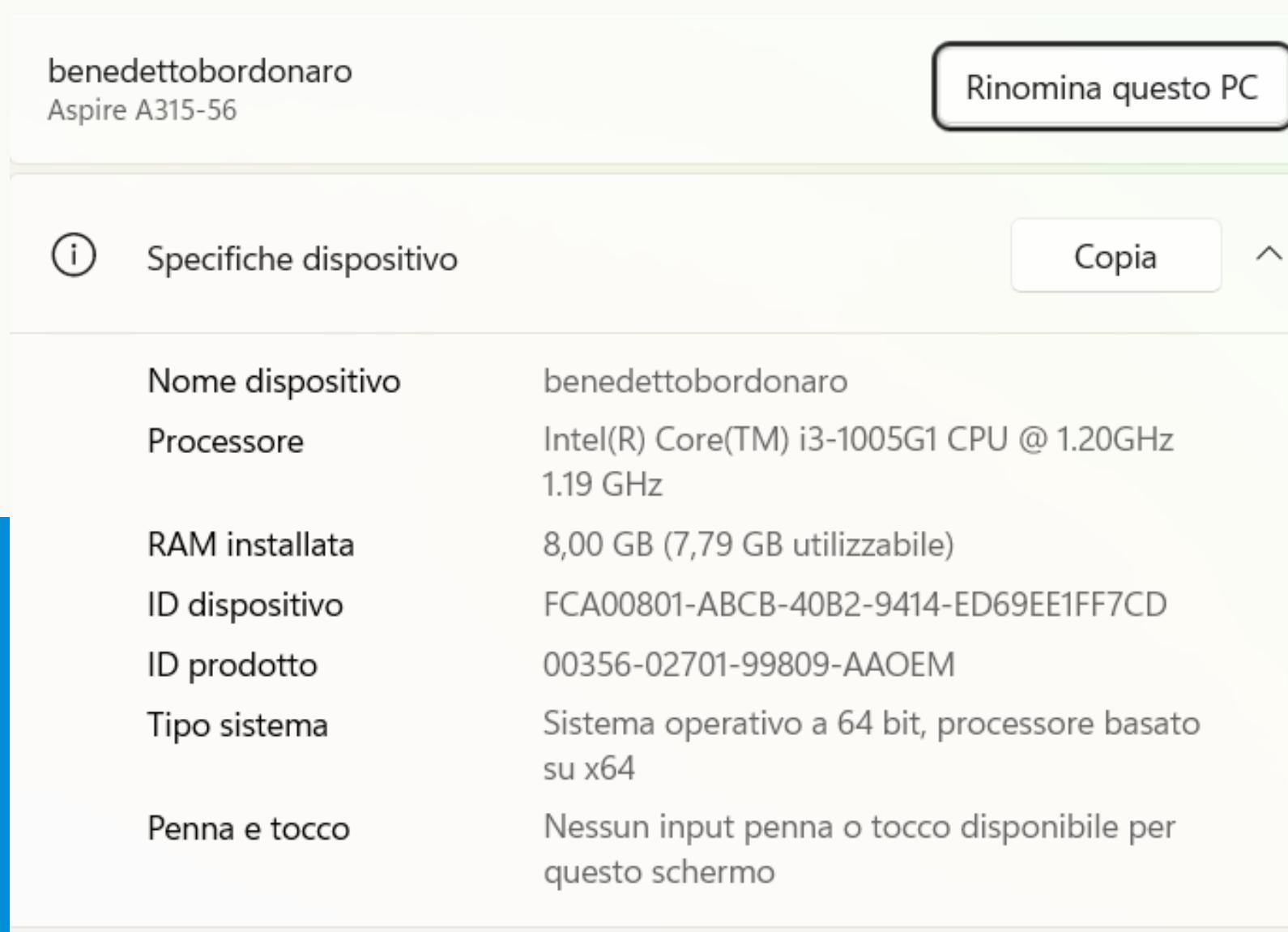
kali@kali:~

File Actions Edit View Help

```
|  
| Use the command  
| $ gsh help  
| to get the list of "gsh" commands.  
|  
~/Castle/Main_tower  
[mission 14] $ alias la='ls -A'  
~/Castle/Main_tower  
[mission 14] $ la  
First_floor/.nice_rock  
~/Castle/Main_tower  
[mission 14] $ gsh check  
Congratulations, mission 14 has been successfully completed!
```

# MISSION 15

Lo scopo di questa missione è di creare un file txt specificando il percorso



A screenshot of a terminal window on a Kali Linux desktop. The terminal shows the following session:

```
kali@kali:~$ nano ~/Forest/Hut/Journal.txt
~/Castle/Main_tower
[mission 15] $ nano ~/Forest/Hut/Journal.txt
~/Castle/Main_tower
[mission 15] $ gsh check
Congratulations, mission 15 has been successfully completed!
--+
| Use the command
```

# MISSION 16

Lo scopo di questa missione è creare un alias journal che contenga il comando per creare un file di testo in un'altra directory.

## Sistema > Informazioni sul sistema

benedettobordonaro  
Aspire A315-56

Rinomina questo PC

Specifiche dispositivo

Copia ^

Nome dispositivo	benedettobordonaro
Processore	Intel(R) Core(TM) i3-1005G1 CPU @ 1.20GHz 1.19 GHz
RAM installata	8,00 GB (7,79 GB utilizzabile)
ID dispositivo	FCA00801-ABCB-40B2-9414-ED69EE1FF7CD
ID prodotto	00356-02701-99809-AAOEM
Tipo sistema	Sistema operativo a 64 bit, processore basato su x64

kali@kali: ~

File Actions Edit View Help

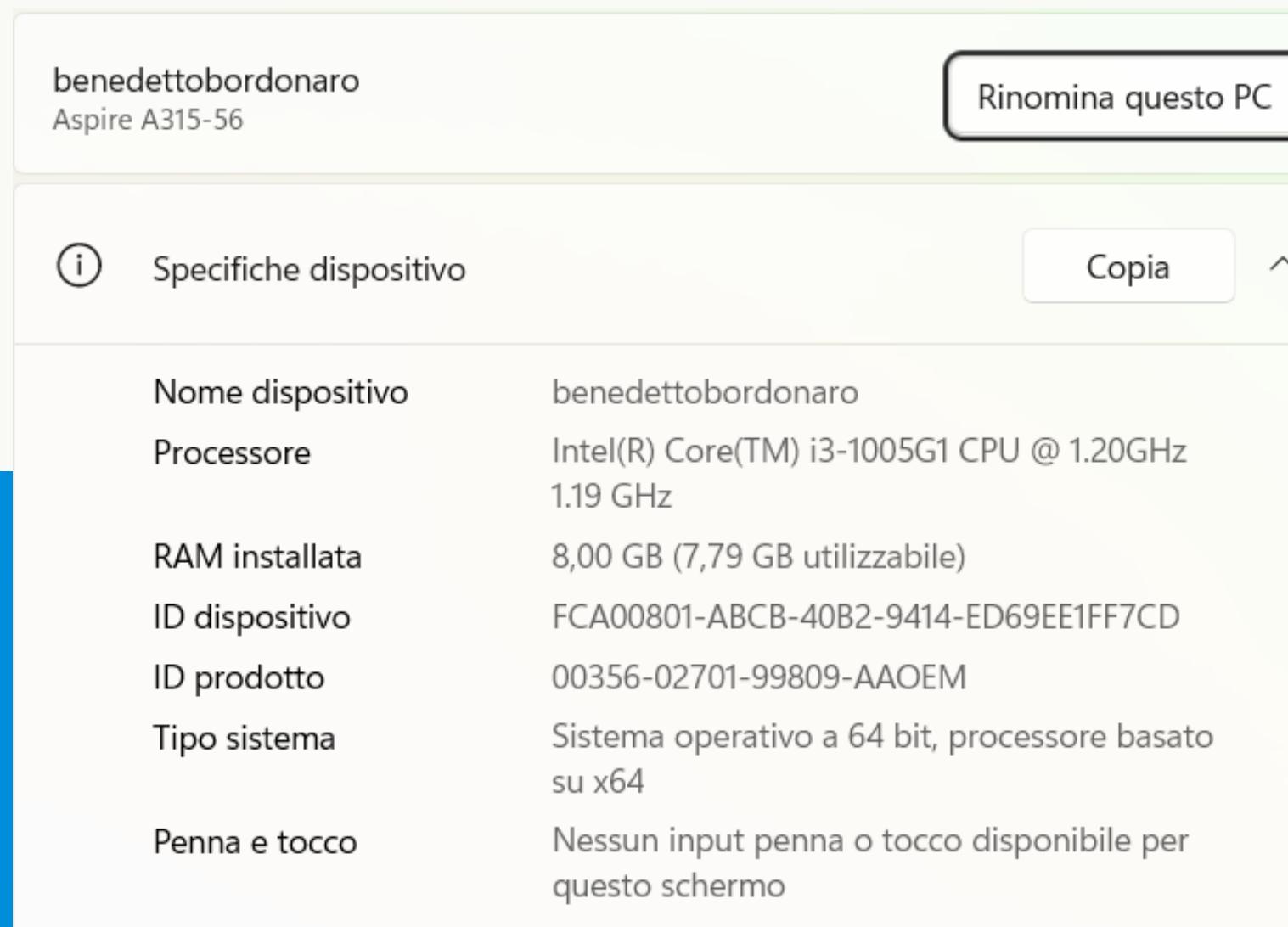
```
~/Castle/Main_tower
[mission 16] $ journal
~/Castle/Main_tower
[mission 16] $ gsh check
Congratulations, mission 16 has been successfully completed!
```

Congratulations!

From now on you can use the file  
"~/.gshrc"  
to record aliases. More information can be found at  
https://github.com/ctfzero/gshrc

# MISSION 17

Lo scopo di questa missione è di eliminare il file **spider\_queen** in meno di 20 secondi-



The screenshot shows a terminal window on a Kali Linux system. The terminal prompt is "kali@kali:~". The user runs the command "ls" and sees a file named "KwrDvppyqMwOSaXM\_spider\_queen\_OuqEGaHusQMPVicg". Then, the user runs the command "rm KwrDvppyqMwOSaXM\_spider\_queen\_OuqEGaHusQMPVicg". Finally, the user runs the command "gsh check" and receives a success message: "Perfect, it took you only 18 seconds to complete this mission!" and "Congratulations, mission 17 has been successfully completed!". The terminal also includes a note about using the "gsh help" command for more information.

```
File Actions Edit View Help
~/Castle/Cellar/.Lair_of_the_spider_queen FVVJnPBijQHoABne bBUTfaNE
[mission 17] $ ls
KwrDvppyqMwOSaXM_spider_queen_OuqEGaHusQMPVicg  OTbcEblSOIbMEdcJ_ba

~/Castle/Cellar/.Lair_of_the_spider_queen FVVJnPBijQHoABne bBUTfaNE
[mission 17] $ rm KwrDvppyqMwOSaXM_spider_queen_OuqEGaHusQMPVicg

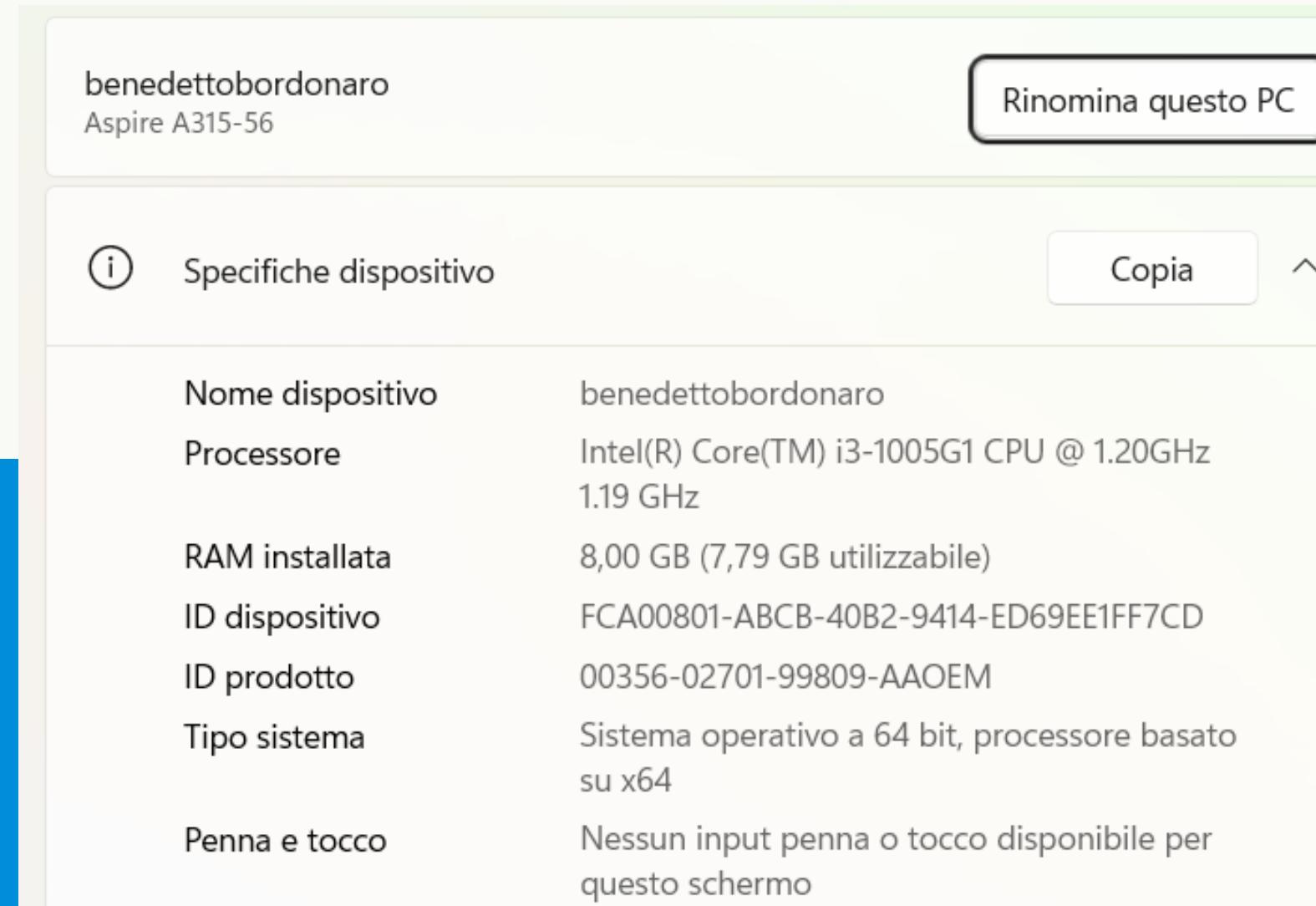
~/Castle/Cellar/.Lair_of_the_spider_queen FVVJnPBijQHoABne bBUTfaNE
[mission 17] $ gsh check
Perfect, it took you only 18 seconds to complete this mission!

Congratulations, mission 17 has been successfully completed!

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

# MISSION 18

Lo scopo di questa missione è di lanciare il comando `xeyes`, metterlo in background e successivamente di terminarlo.



The screenshot shows a terminal window on a Kali Linux desktop. The title bar indicates the session is running on 'kali' at the terminal. The terminal window has a dark theme with a blue and black abstract background. The command history shows the following sequence of commands:

```
File Actions Edit View Help
~/Castle/Cellar/.Lair_of_the_spider_queen FVVJnPBijQHoABne bBUTfa
[mission 18] $ xeyes&
[2] 37608

~/Castle/Cellar/.Lair_of_the_spider_queen FVVJnPBijQHoABne bBUTfa
[mission 18] $ ^C

~/Castle/Cellar/.Lair_of_the_spider_queen FVVJnPBijQHoABne bBUTfa
[mission 18] $ ^C

~/Castle/Cellar/.Lair_of_the_spider_queen FVVJnPBijQHoABne bBUTfa
[mission 18] $ gsh check

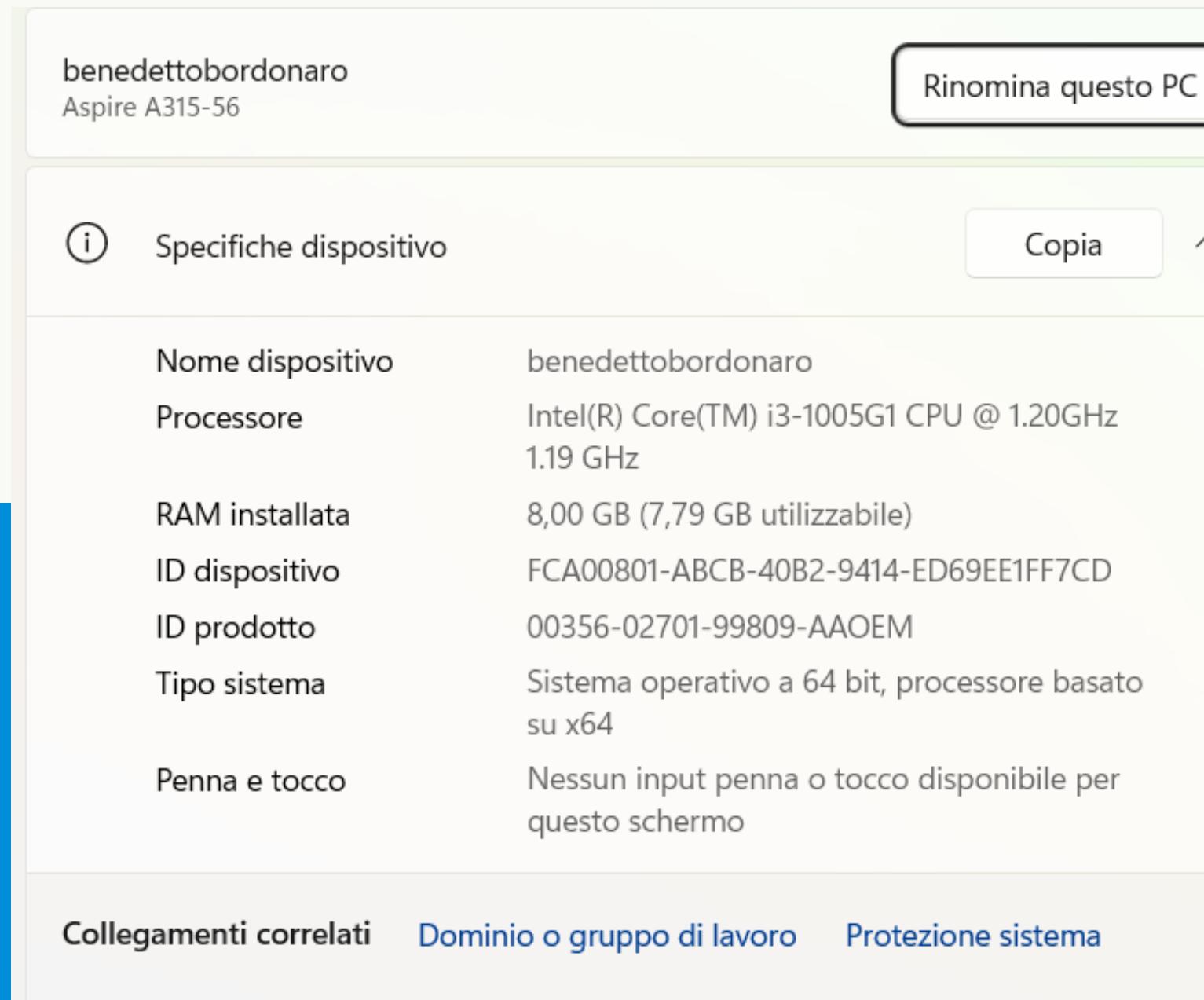
Congratulations, mission 18 has been successfully completed!
```

At the bottom of the terminal window, there is a help menu:

```
| Use the command
| $ gsh help
|
```

# MISSION 19

Lo scopo di questa missione è di trovare **copper\_coin** e di spostarlo nella directory **Chest**.



The screenshot shows a terminal window on a Kali Linux desktop. The terminal output is as follows:

```
kali㉿kali:~
```

```
1534a45809b782a78/ 876cd722b988d25/
```

```
~/Garden/Maze/350e2931e9f31f471/6767b17644231010 [mission 19] $ cd 1534a45809b782a78/
```

```
~/Garden/Maze/350e2931e9f31f471/6767b17644231010/1534a45809b782 [mission 19] $ ls
```

```
00000_copper_coin_00000
```

```
~/Garden/Maze/350e2931e9f31f471/6767b17644231010/1534a45809b782 [mission 19] $ mv 00000_copper_coin_00000 ~/Forest/Hut/Chest/
```

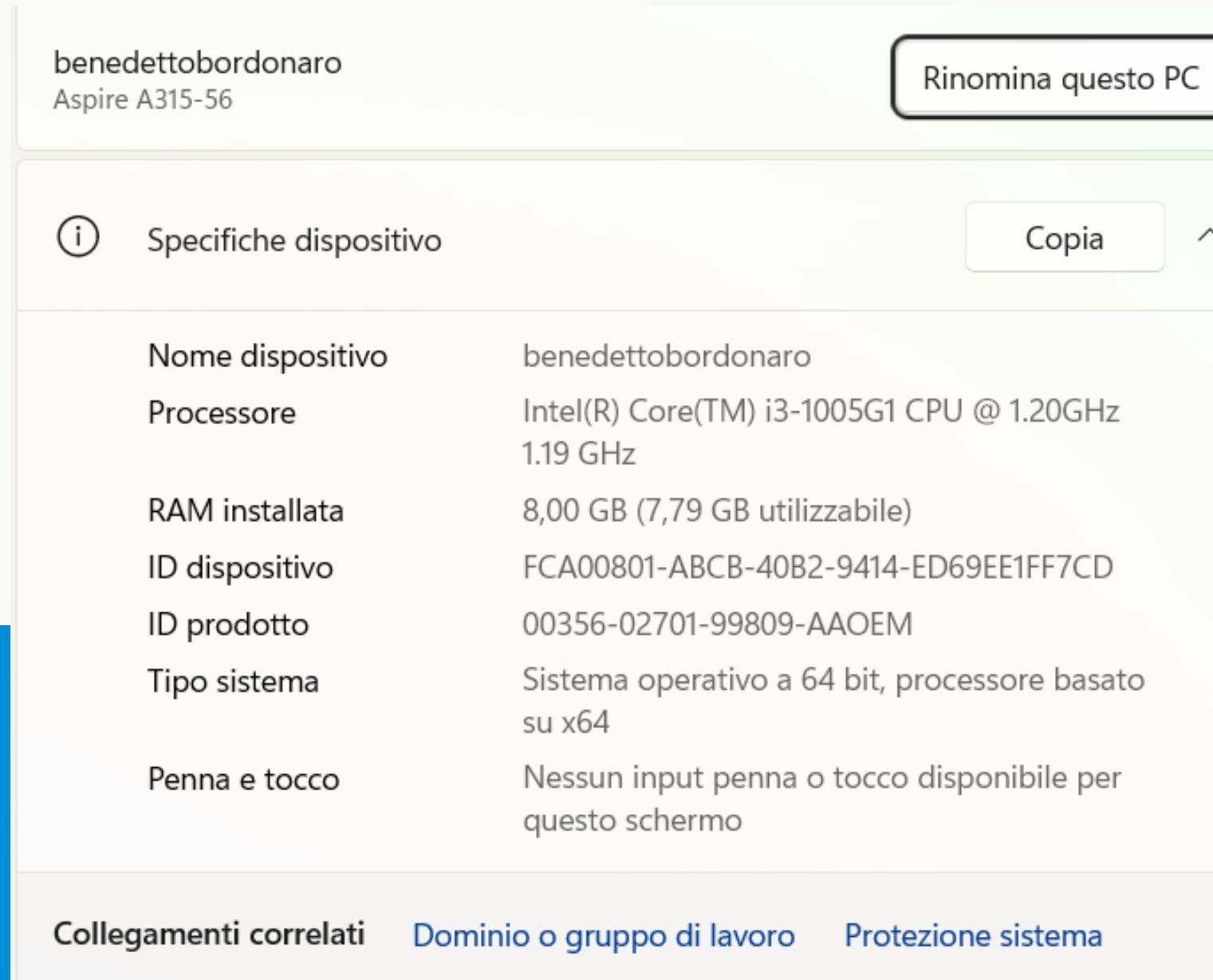
```
~/Garden/Maze/350e2931e9f31f471/6767b17644231010/1534a45809b782 [mission 19] $ gsh check
```

```
Congratulations, mission 19 has been successfully completed!
```

On the right side of the terminal window, there is a decorative background image of a forest scene.

# MISSION 20

Lo scopo di questa missione è di trovare **silver\_coin** e di spostarlo nella directory **Chest**



The screenshot shows a terminal window on a Kali Linux desktop. The terminal output is as follows:

```
kali@kali: ~
File Actions Edit View Help
└─ 30a925ff057defcaf6995fcdaab262
   └─ 8076f0d008c91bab
      └─ a593a0984e9d2bf4a2577
         └─ 30e329d0cb6a4b2553a
            └─ 9456366b827
               └─ aad255ea098baaf0e74f02937b6
40 directories, 1 file
~/Garden/Maze
[mission 20] $ mv 86acac7300627f/84b8ec70956ecfe39691e5556d/f2582c...
~/Garden/Maze
[mission 20] $ gsh check
Congratulations, mission 20 has been successfully completed!
| |
| Use the command
| $ gsh help
```

# MISSION 21

Lo scopo di questa missione è di trovare le 2 **monete d'oro** e di spostarle nella directory **Chest**

The image shows a dual-pane interface. On the left, a 'Specifiche dispositivo' (Device specifications) window displays hardware details for a 'Aspire A315-56'. Key entries include:

- Nome dispositivo: benedettobordonaro
- Processore: Intel(R) Core(TM) i3-1005G1 CPU @ 1.20GHz 1.19 GHz
- RAM installata: 8,00 GB (7,79 GB utilizzabile)
- ID dispositivo: FCA00801-ABCB-40B2-9414-ED69EE1FF7CD
- ID prodotto: 00356-02701-99809-AAOEM
- Tipo sistema: Sistema operativo a 64 bit, processore basato su x64
- Penna e tocco: Nessun input penna o tocco disponibile per questo schermo.

A 'Rinomina questo PC' (Rename this PC) button is visible at the top right of the device info window. Below it, a 'Copia' (Copy) button is present. On the right, a terminal window titled 'kali@kali: ~' shows the following session:

```
~/Garden/Maze
[mission 21] $ find -type f
./f9ff198e37/52734eb8736663871d1ea0/ebb691c4a3e9fa4d6fd20a00428f79/gold_coin_1
./2f188a7d1037770b5e88f86d/cab40bc43/7dce421fa3627671755d3/Gold_CoiN_2

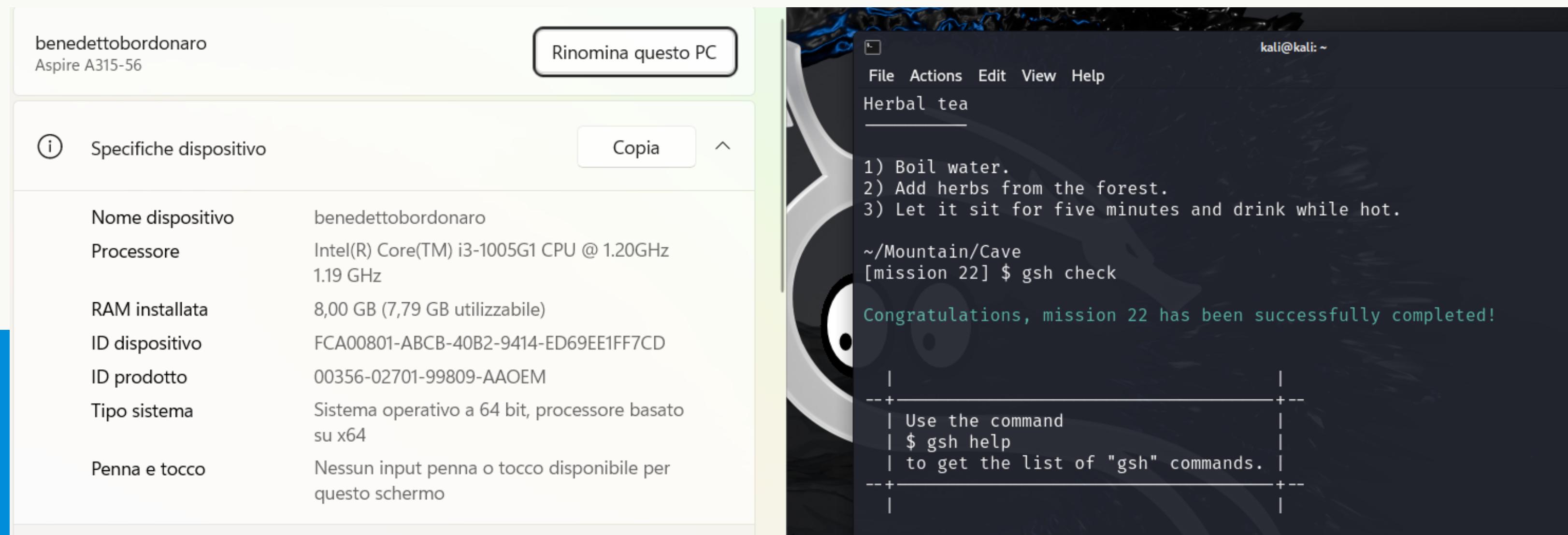
~/Garden/Maze
[mission 21] $ mv ./f9ff198e37/52734eb8736663871d1ea0/ebb691c4a3e9fa4d6fd20a00428f79/gold_coin_1
./2f188a7d1037770b5e88f86d/cab40bc43/7dce421fa3627671755d3/Gold_CoiN_2

~/Garden/Maze
[mission 21] $ gsh check

Congratulations, mission 21 has been successfully completed!
```

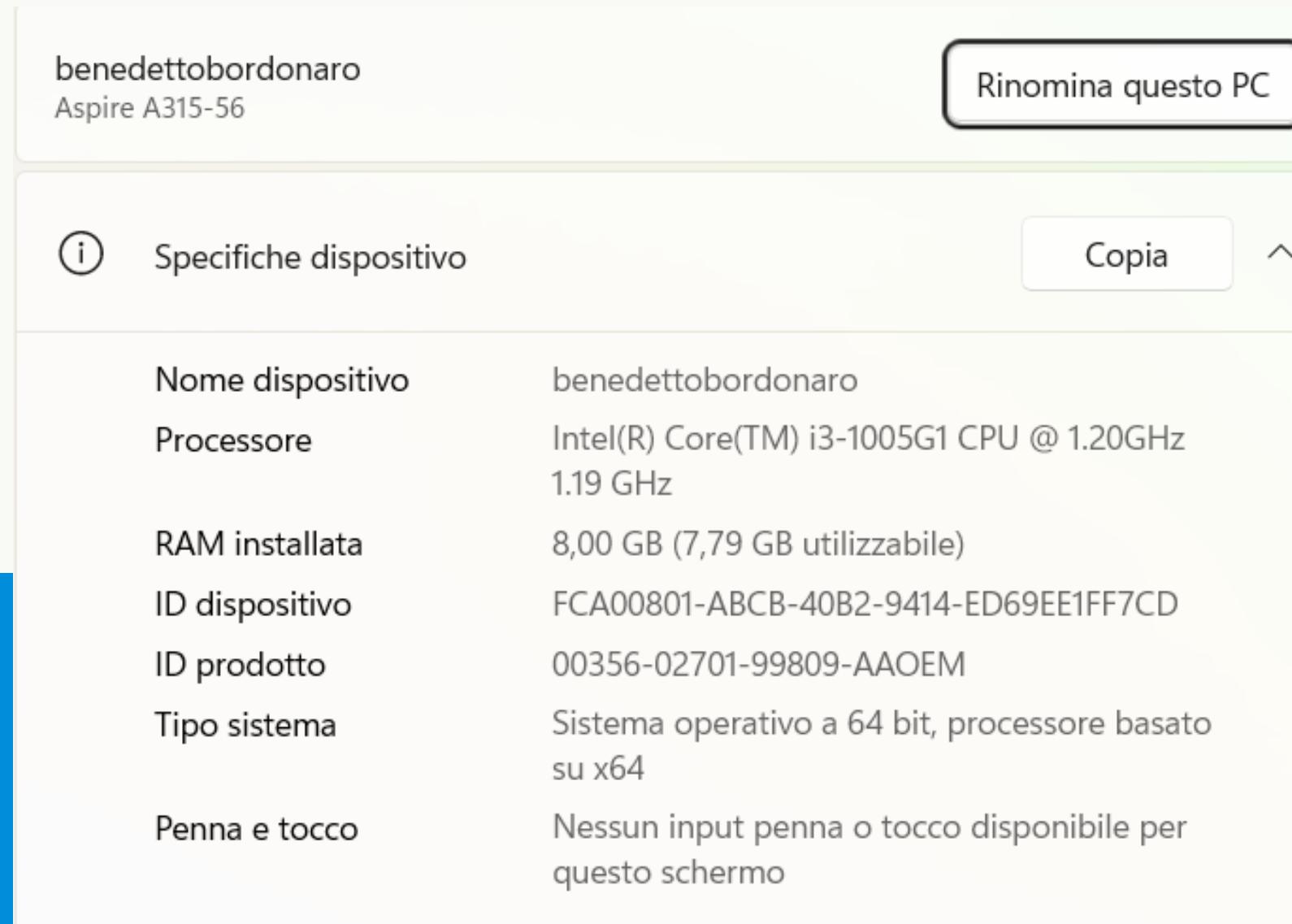
# MISSION 22

Lo scopo di questa missione è copiare una pagina e inserirla nella cartella **Cave** e successivamente leggerla con il comando **head**



# MISSION 23

Lo scopo di questa missione è di copiare la pagina 12 nella cartella **Cave** e di leggerla con il comando **tail**



A screenshot of a terminal window on Kali Linux. The terminal shows the following session:

```
kali㉿kali:~ [mission 23] $ tail -n 9 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

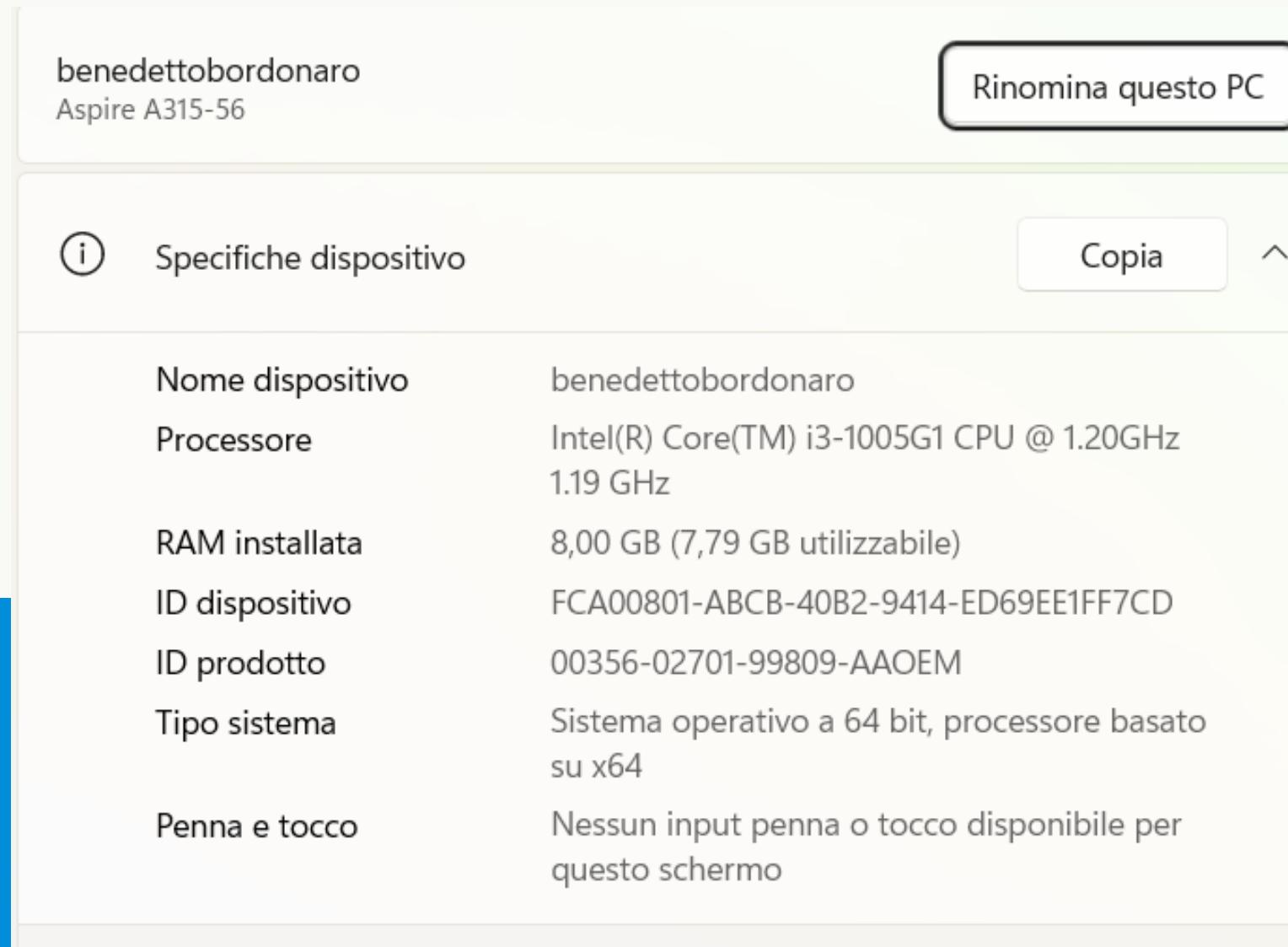
Congratulations, mission 23 has been successfully completed!
```

The terminal also includes a help message at the bottom:

```
| Use the command
| $ gsh help
```

# MISSION 24

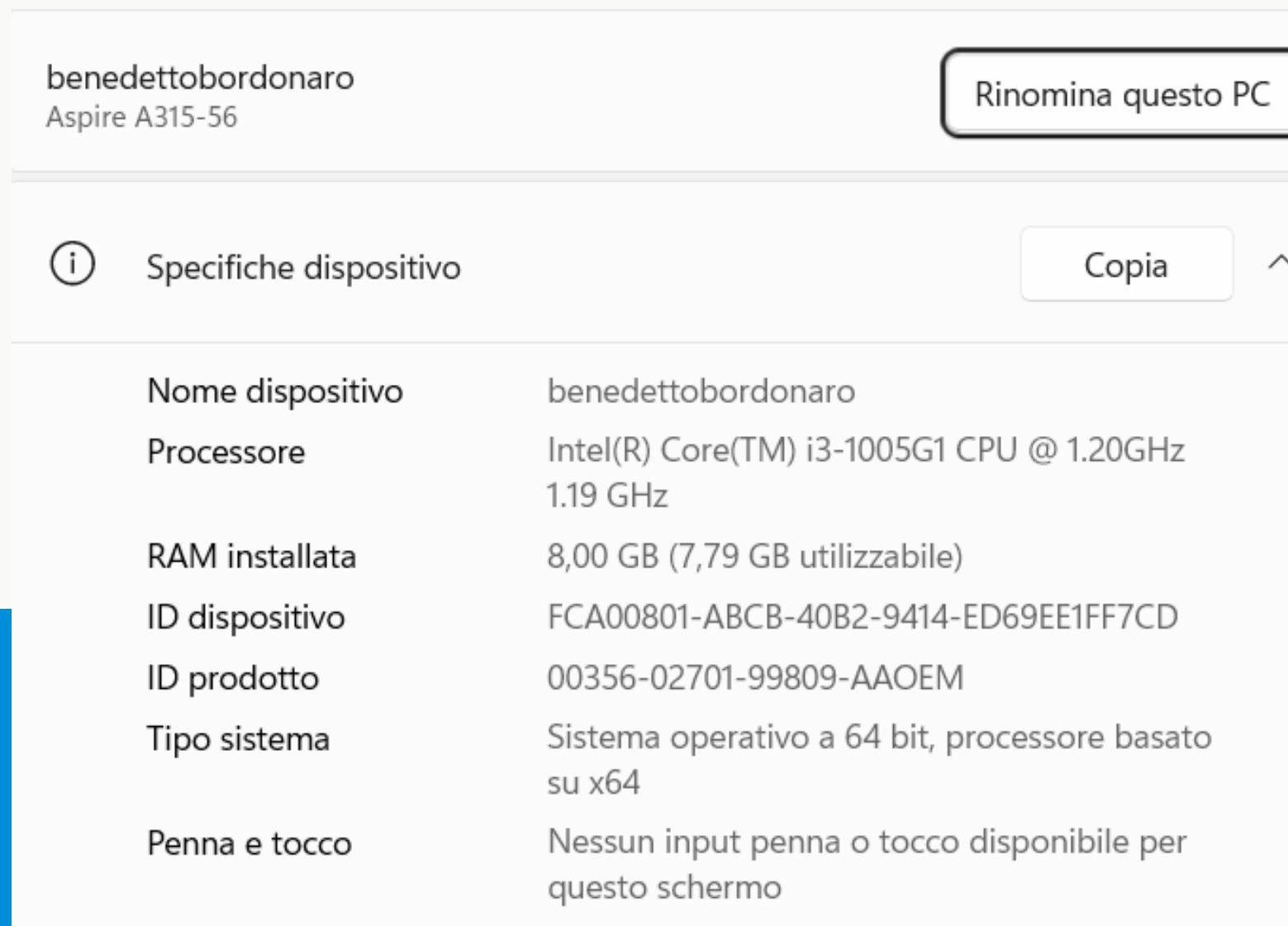
Lo scopo di questa missione è di copiare la pagina 01 e pagina 02 e di leggerla seguendo i comandi suggeriti.



```
kali@kali:~  
File Actions Edit View Help  
9) Heat for 30 seconds on a low heat.  
10) Add 3 measures of boomslang skin to the cauldron.  
11) Crush a bicorn horn into a fine powder.  
12) Add 1 measure of the crushed horn to the cauldron.  
13) Heat for 20 seconds at a high temperature.  
14) Wave your wand then let potion brew for 24 hours.  
15) Add 1 additional scoop of lacewings to the cauldron.  
16) Stir 3 times, counter-clockwise.  
17) Split potion into multiple doses, if desired.  
18) Add a pieces of the person you wish to become.  
19) Wave your wand to complete the potion.  
~/Mountain/Cave  
[mission 24] $ gsh check  
Congratulations, mission 24 has been successfully completed!  
| Use the command |
```

# MISSION 25

Lo scopo di questa missione è di copiare la pagina 03 e pagina 04 e di leggerla seguendo i comandi suggeriti



The screenshot shows a terminal window on a Kali Linux desktop. The title bar indicates the session is running on 'kali' with the command 'gsh'. The terminal output is as follows:

```
kali@kali:~  
File Actions Edit View Help  
14) Even take a nap if you want.  
15) Add a few larch tree needles for seasoning.  
16) Drink the potion from the cauldron.  
~/Mountain/Cave  
[mission 25] $ gsh check  
Congratulations, mission 25 has been successfully completed!  
|  
+--+-----+--  
| Use the command  
| $ gsh help  
| to get the list of "gsh" commands.  
+--+-----+--  
|  
~/Mountain/Cave
```

# MISSION 26

Lo scopo di questa missione è di copiare la pagina 13 e di leggerla seguendo i comandi suggeriti

The screenshot shows a Windows Control Panel interface on the left and a terminal window on the right.

**Control Panel (Left):**

- User: benedettobordonaro
- Computer: Aspire A315-56
- Section: Specifiche dispositivo
- Details:
  - Nome dispositivo: benedettobordonaro
  - Processore: Intel(R) Core(TM) i3-1005G1 CPU @ 1.20GHz 1.19 GHz
  - RAM installata: 8,00 GB (7,79 GB utilizzabile)
  - ID dispositivo: FCA00801-ABCB-40B2-9414-ED69EE1FF7CD
  - ID prodotto: 00356-02701-99809-AAOEM
  - Tipo sistema: Sistema operativo a 64 bit, processore basato su x64
  - Penna e tocco: Nessun input penna o tocco disponibile per questo schermo
- Bottom links: Collegamenti correlati, Dominio o gruppo di lavoro, Protezione sistema

**Terminal Window (Right):**

- Terminal title: Rinomina questo PC
- Terminal content:

```
kali@kali: ~
File Actions Edit View Help
1) Go to the castle's cellar and grab a bottle.
2) Serve cold, in a pint.

~/Mountain/Cave
[mission 26] $ head -n 6 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

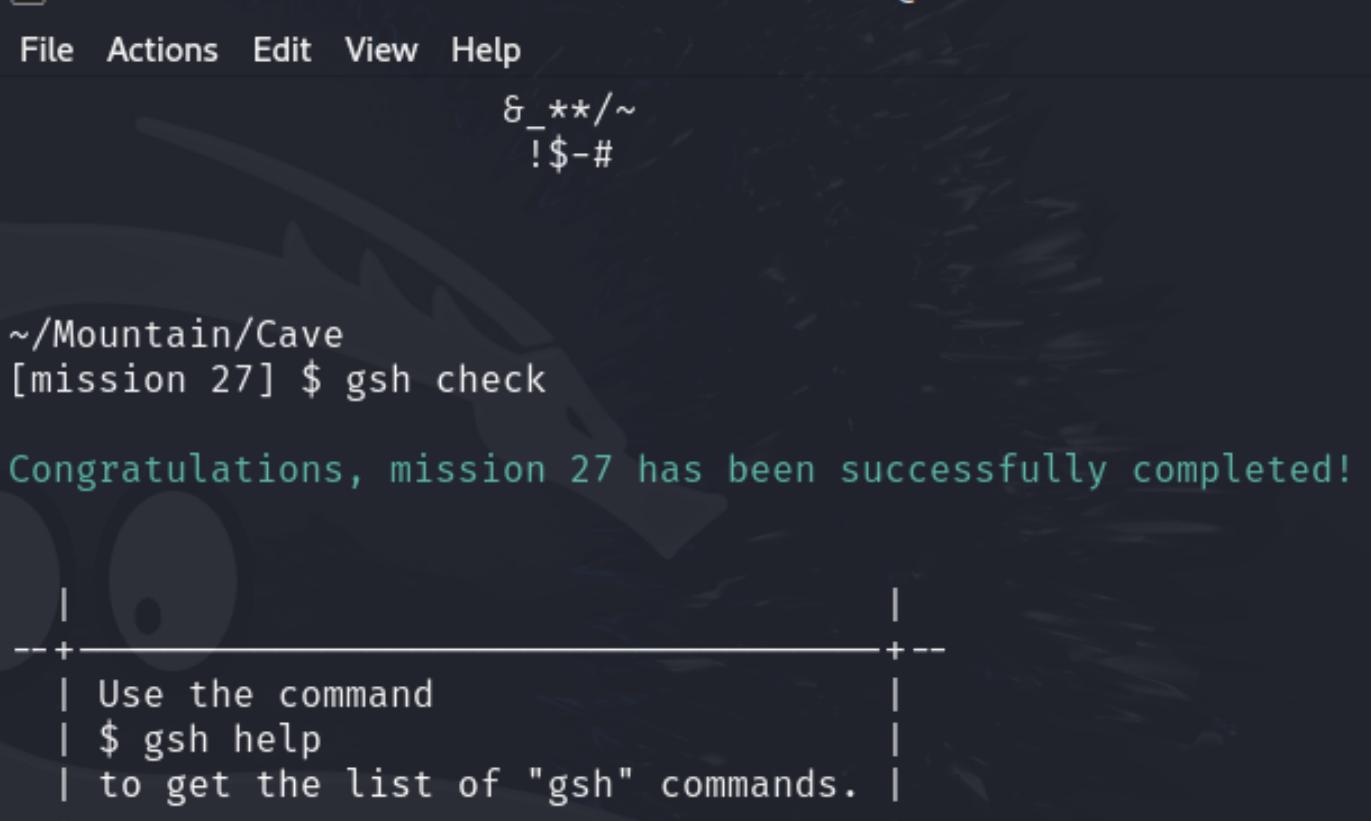
Congratulations, mission 26 has been successfully completed!
```
- Bottom text:

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

# MISSION 27

Io scopo di questa missione dobbiamo eliminare un processo che ci ostacola dal proseguire.

benedettobordonaro	Rinomina questo PC
Aspire A315-56	
<hr/>	
(i) Specifiche dispositivo	<button>Copia</button>
<hr/>	
Nome dispositivo	benedettobordonaro
Processore	Intel(R) Core(TM) i3-1005G1 CPU @ 1.20GHz 1.19 GHz
RAM installata	8,00 GB (7,79 GB utilizzabile)
ID dispositivo	FCA00801-ABCB-40B2-9414-ED69EE1FF7CD
ID prodotto	00356-02701-99809-AAOEM
Tipo sistema	Sistema operativo a 64 bit, processore basato su x64
Penna e tocco	Nessun input penna o tocco disponibile per



A terminal window titled "File Actions Edit View Help" with the command line "kali@kali:~". The terminal shows the following output:

```
§_**/~  
!$-#  
  
~/Mountain/Cave  
[mission 27] $ gsh check  
  
Congratulations, mission 27 has been successfully completed!  
  
|  
+-----+  
| Use the command  
| $ gsh help  
| to get the list of "gsh" commands.  
+-----+
```

# MISSION 28

Lo scopo di questa missione è di eliminare più processi con comandi più forzati .

benedettobordonaro  
Aspire A315-56

Rinomina questo PC

i Specifiche dispositivo Copia ^

Nome dispositivo	benedettobordonaro
Processore	Intel(R) Core(TM) i3-1005G1 CPU @ 1.20GHz 1.19 GHz
RAM installata	8,00 GB (7,79 GB utilizzabile)
ID dispositivo	FCA00801-ABCB-40B2-9414-ED69EE1FF7CD
ID prodotto	00356-02701-99809-AAOEM
Tipo sistema	Sistema operativo a 64 bit, processore basato su x64
Penna e tocco	Nessun input penna o tocco disponibile per questo schermo

Collegamenti correlati Dominio o gruppo di lavoro Protezione sistema

```
kali@kali: ~
File Actions Edit View Help
PID TTY TIME CMD
1497 pts/0 00:00:02 zsh
5867 pts/0 00:00:00 bash
5893 pts/0 00:00:02 bash
37377 pts/0 00:00:00 xeyes
69873 pts/0 00:00:00 ps

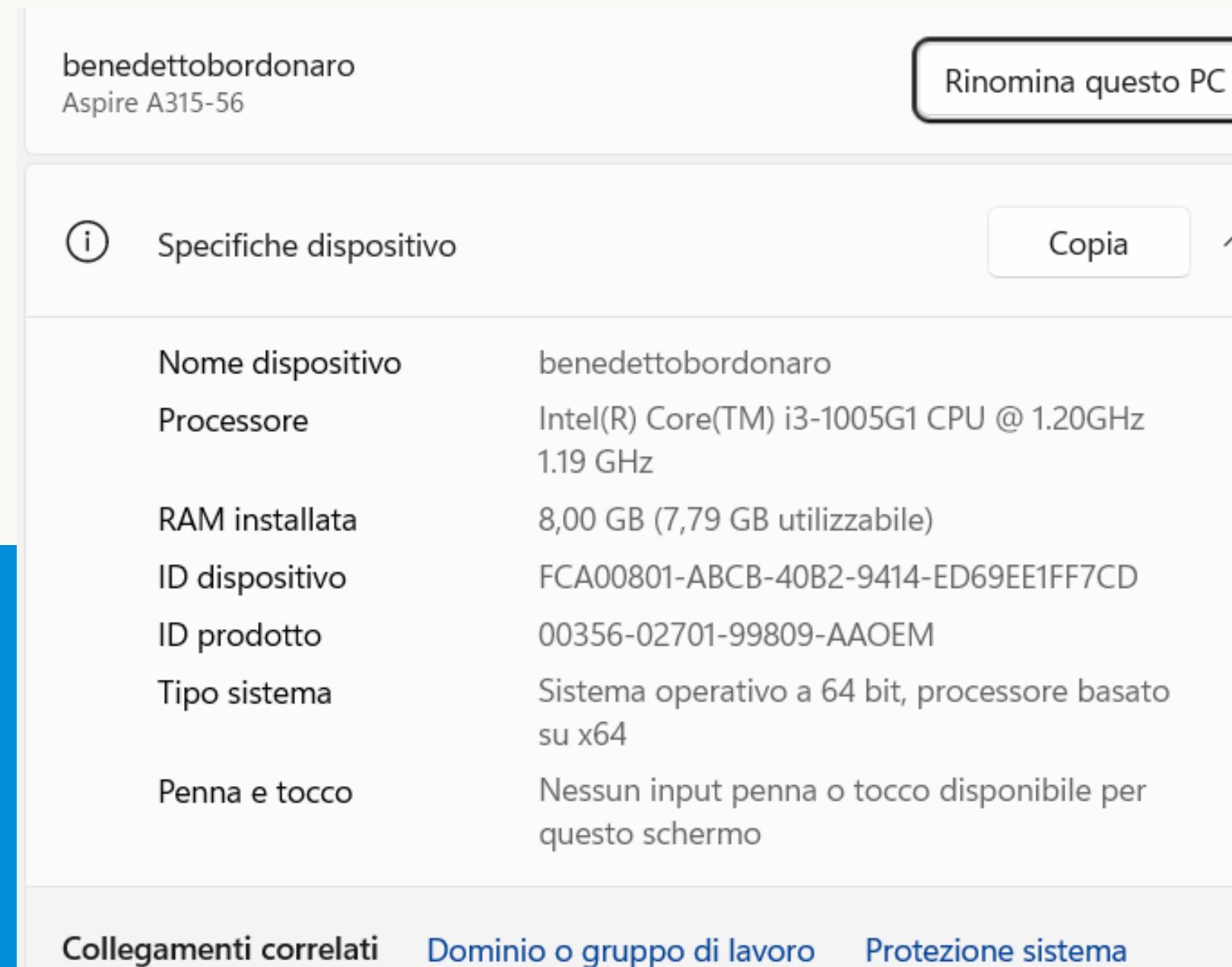
~/Mountain/Cave
[mission 28] $ gsh check

Congratulations, mission 28 has been successfully completed!

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

# MISSION 29

Lo scopo di questa missione è di eliminare ricorsivamente tutti i file specificati.



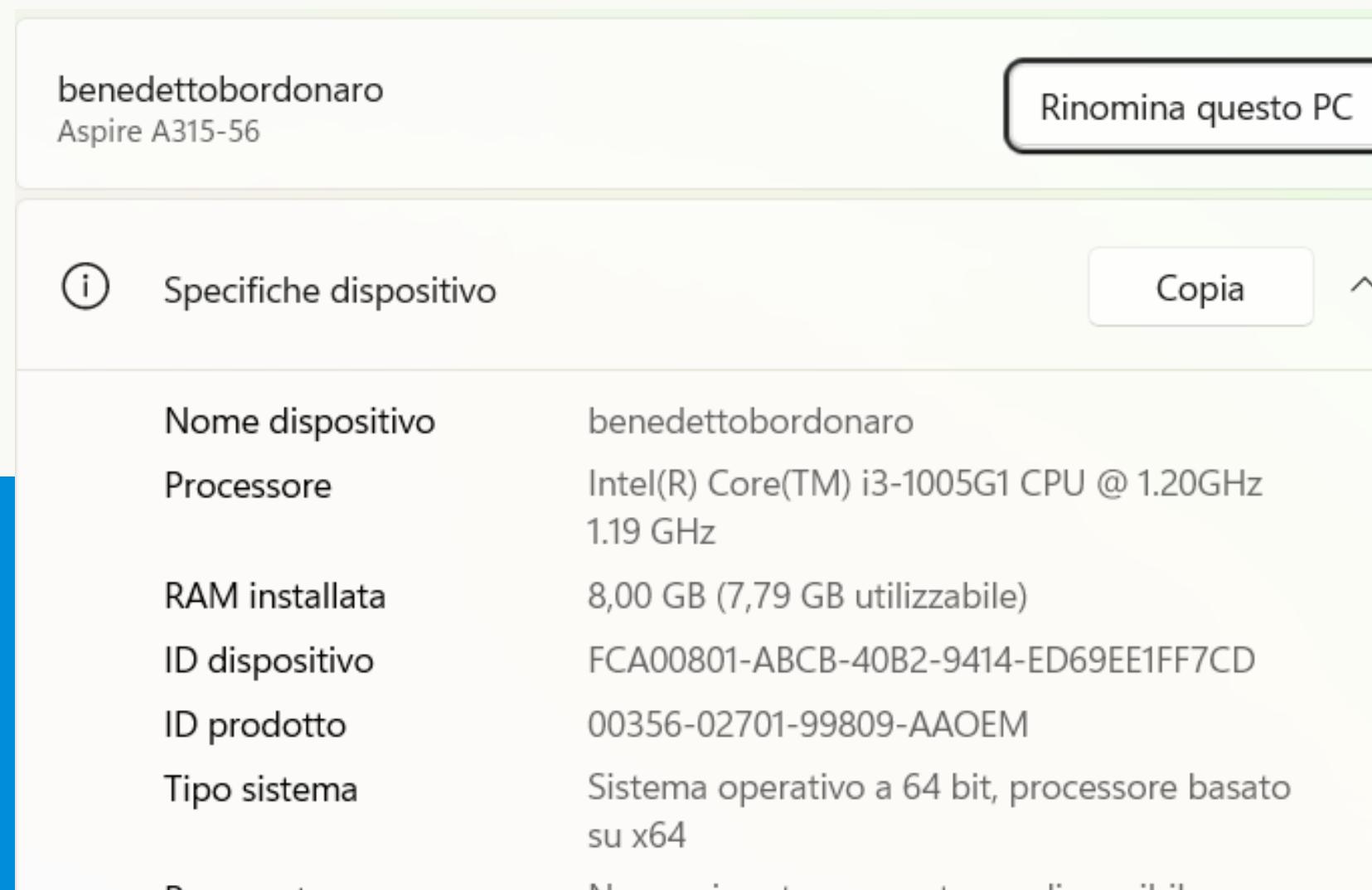
A screenshot of a terminal window on Kali Linux. The title bar says 'kali@kali: ~'. The terminal shows the following session:

```
File Actions Edit View Help
13636_snowflake 20073_snowflake 24784_coal      30777_snowflake
15142_snowflake 20341_snowflake 25821_coal      30963_coal
15280_coal      20451_snowflake 26793_coal      3122_coal
15600_snowflake 20565_coal    26793_snowflake 3133_bat_1
15830_snowflake 20929_snowflake 26876_coal      31540_coal
~/Castle/Cellar
[mission 29] $ rm -r *coal*
~/Castle/Cellar
[mission 29] $ gsh check
Congratulations, mission 29 has been successfully completed!

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

# MISSION 30

Lo scopo di questa missione è di risolvere dei calcoli matematici.



A screenshot of a terminal window titled "kali@kali: ~". The terminal shows the following output:

```
~/Castle/Cellar
[mission 30] $ gsh check
94 + 43 = ?? 137
20 + 14 = ?? 34
71 + 39 = ?? 110
30 + 81 = ?? 111
13 + 87 = ?? 100

Congratulations, mission 30 has been successfully completed!

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

# MISSION 31

Lo scopo di questa missione è di inserire una formula nel mentre cerchiamo di eseguire il gsh check in modo da poterlo risolvere automaticamente.

The image shows a dual-screen setup. The left screen displays a system information window for a Dell Inspiron 15-5559. The right screen shows a terminal window on a Kali Linux desktop environment.

**Laptop Screen (Left): System Information**

Specifiche dispositivo	Copia
Nome dispositivo	benedettobordonaro
Processore	Intel(R) Core(TM) i3-1005G1 CPU @ 1.20GHz 1.19 GHz
RAM installata	8,00 GB (7,79 GB utilizzabile)
ID dispositivo	FCA00801-ABCB-40B2-9414-ED69EE1FF7CD
ID prodotto	00356-02701-99809-AAOEM
Tipo sistema	Sistema operativo a 64 bit, processore basato su x64
Penna e tocco	Nessun input penna o tocco disponibile per questo schermo

**Terminal Window (Right): gsh check**

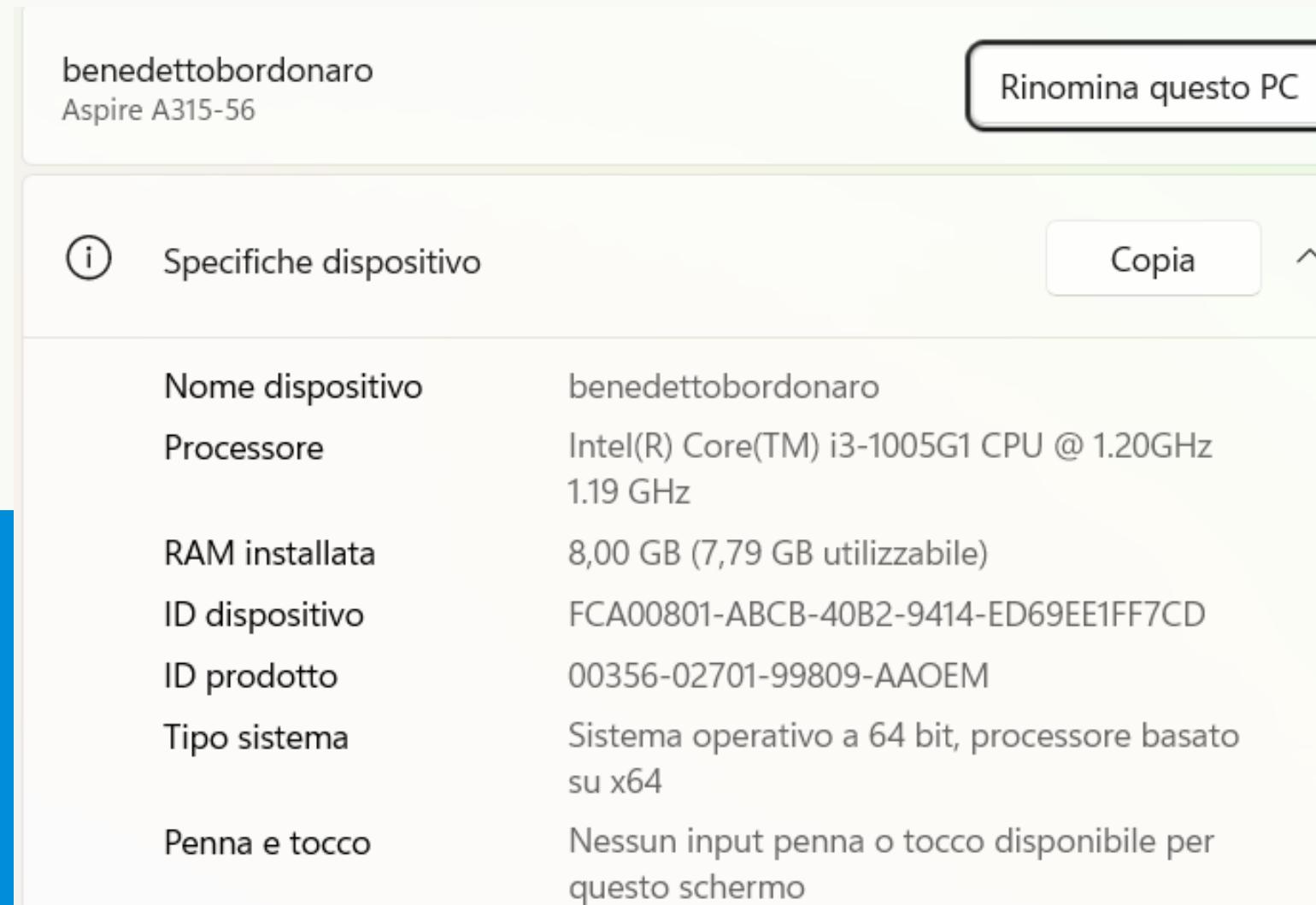
```
~/Castle/Main_building/Library
[mission 31] $ ls
Greek_Latin_and_other_modern_languages Mathematics_101 Merlin_s_of

~/Castle/Main_building/Library
[mission 31] $ gsh check < Mathematics_101
38 * 83 = ?? 35 * 63 = ?? 80 * 42 = ?? 55 * 38 = ?? 15 * 92 = ?? 59
= ?? 44 * 47 = ?? 13 * 12 = ?? 62 * 33 = ?? 47 * 72 = ?? 44 * 99 = ??
24 = ?? 57 * 36 = ?? 52 * 36 = ?? 58 * 75 = ?? 10 * 37 = ?? 76 * 56
* 28 = ?? 86 * 20 = ?? 53 * 51 = ?? 88 * 73 = ?? 23 * 95 = ?? 69 * 81
6 * 91 = ?? 15 * 31 = ?? 76 * 8 = ?? 65 * 88 = ?? 90 * 58 = ?? 41 *
? 80 * 23 = ?? 52 * 41 = ?? 33 * 12 = ?? 56 * 26 = ?? 29 * 64 = ?? 11
39 = ?? 78 * 54 = ?? 60 * 84 = ?? 96 * 80 = ?? 30 * 76 = ?? 15 * 5 =
Congratulations, mission 31 has been successfully completed!

While you are waiting, a duck swims by ...
```

# MISSION 32

Lo scopo di questa missione è di leggere tutti i file grimoire e di indirizzarli alla cartella di destinazione



```
kali@kali:~  
File Actions Edit View Help  
grimoire_10471 grimoire_12866 grimoire_14500 grimoire_17092 grimo...  
grimoire_11274 grimoire_13166 grimoire_14551 grimoire_17529 grimo...  
grimoire_11528 grimoire_13469 grimoire_15148 grimoire_17689 grimo...  
grimoire_11762 grimoire_13593 grimoire_1518 grimoire_17809 grimo...  
~/Castle/Main_building/Library/Merlin_s_office  
[mission 32] $ ls grimoire_* > ~/Castle/Main_building/Library/Merlin_s...  
~/Castle/Main_building/Library/Merlin_s_office  
[mission 32] $ gsh check  
Congratulations, mission 32 has been successfully completed!  
While you are waiting, a duck swims by ...  
|  
+--  
| Use the command  
| $ gsh help  
| to get the list of "gsh" commands  
|
```

# MISSION 33

benedettobordonaro  
Aspire A315-56

Rinomina questo PC

Copia ^

① Specifiche dispositivo

Nome dispositivo	benedettobordonaro
Processore	Intel(R) Core(TM) i3-1005G1 CPU @ 1.20GHz 1.19 GHz
RAM installata	8,00 GB (7,79 GB utilizzabile)
ID dispositivo	FCA00801-ABCB-40B2-9414-ED69EE1FF7CD
ID prodotto	00356-02701-99809-AAOEM
Tipo sistema	Sistema operativo a 64 bit, processore basato su x64
Penna e tocco	Nessun input penna o tocco disponibile per questo schermo

Collegamenti correlati    [Dominio o gruppo di lavoro](#)    [Protezione sistema](#)

[Impostazioni di sistema avanzate](#)

```
kali@kali:~
```

```
File Actions Edit View Help
```

```
grep: grimoire_rdCxnQjePIsUklZptvdyBv: Permission denied
grep: grimoire_seZTlZmKdnQZJ: Permission denied
grep: grimoire_ThiurzLekWajbTh: Permission denied
grep: grimoire_TmAscycVXkW: Permission denied
grep: grimoire_tTNteKmsPXYNzthlBChljIjKiQ: Permission denied
grep: grimoire_tWTweXfxqE: Permission denied
grep: grimoire_TXGbYITvlVEynmGmAeFxRtVgg: Permission denied
grep: grimoire_uLlmOEElCcfHvsXrfhkKFImWwwdR: Permission denied
grep: grimoire_uXChfIVl: Permission denied
grep: grimoire_wMQgZTkoIbXvoFB: Permission denied
grep: grimoire_YAFcgzfcRCrExZPWxsKaQskHlJ: Permission denied
grep: grimoire_yFhAPikUgwXLPqRcEhfoNucMJcxhzjt: Permission denied
grep: grimoire_YgCMTcIj: Permission denied
grep: grimoire_YzrwNRhOLjTLplYhy: Permission denied
grep: grimoire_zQEzxALGxt: Permission denied
```

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

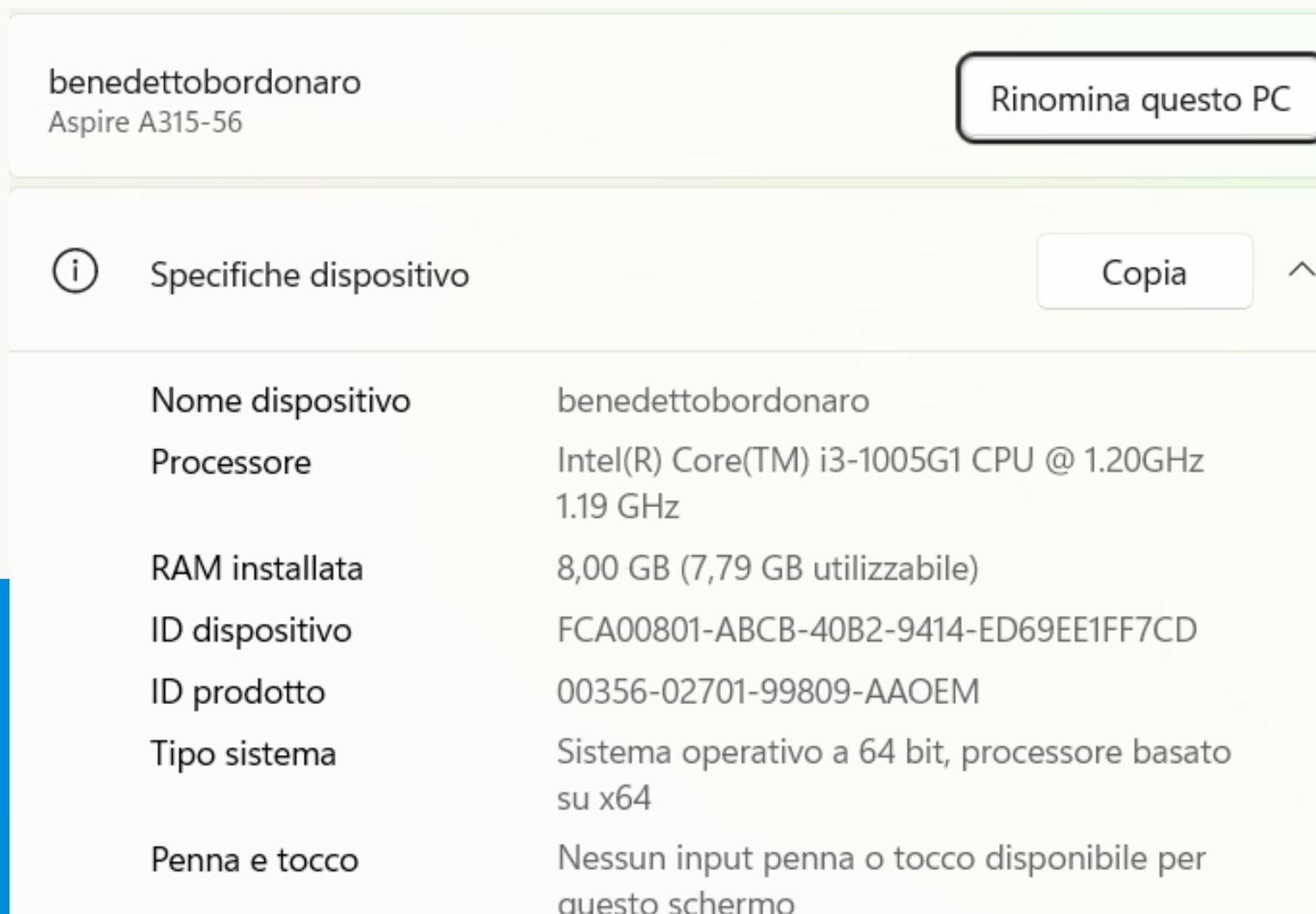
```
|
```

```
--+-----+--
```

```
| Use the command |
```

# MISSION 34

Lo scopo di questa missione è di avviare il file merlin ed eseguirlo senza errori

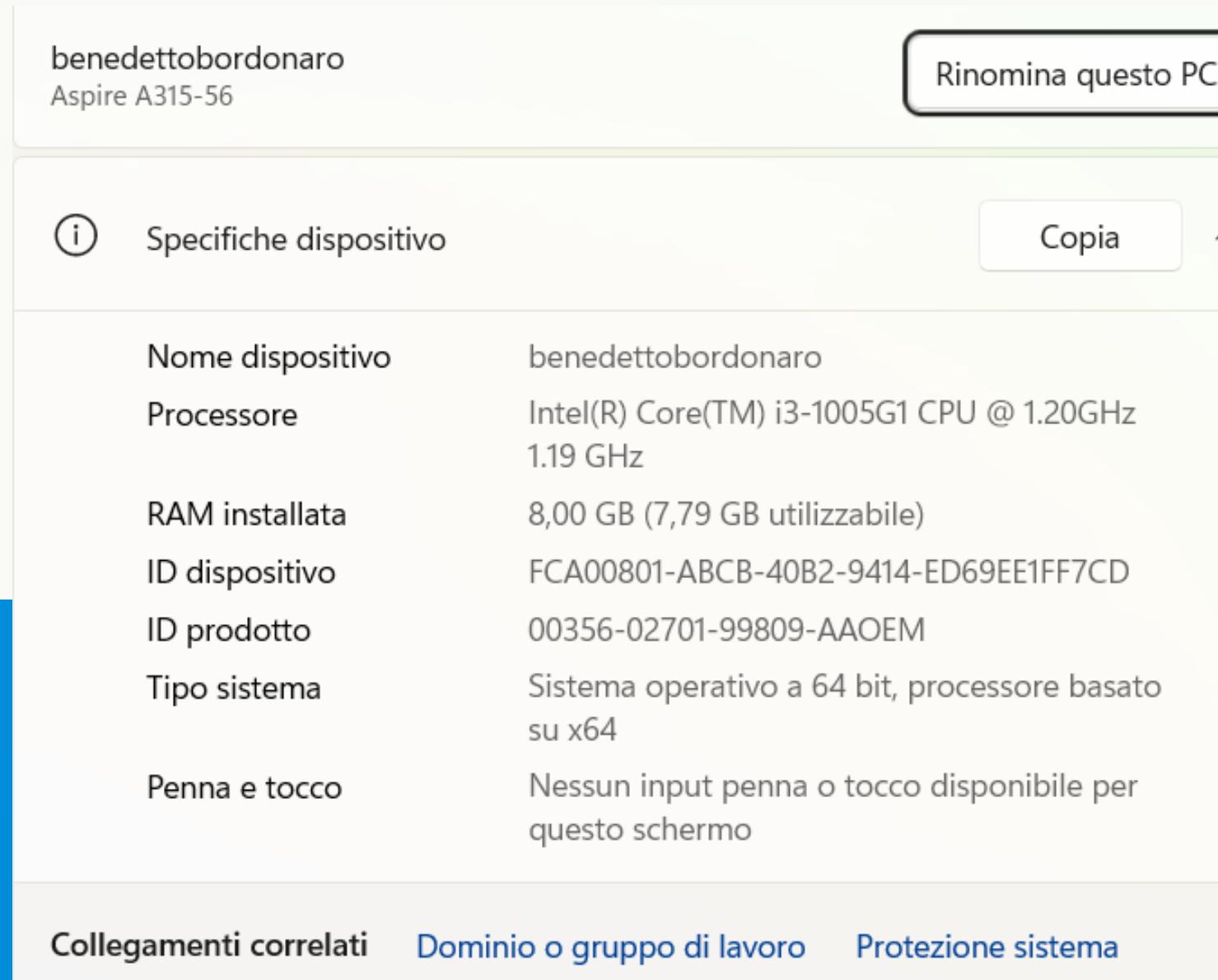


The screenshot shows a terminal window on a Kali Linux desktop. The terminal prompt is "kali@kali: ~". The user has run the command `./merlin < star_chart 2> merlin.txt`. The output of this command is displayed in green text:  
THESECRETKEYISONSTDERR  
What is the secret key?  
Congratulations, mission 34 has been successfully completed!

At the bottom of the terminal, there is a help message for the "gsh" command:  
| Use the command  
| \$ gsh help  
| to get the list of "gsh" commands.  
|

# MISSION 35

Lo scopo di questa missione è di cambiare i permessi della cartella King\_quarter .



The screenshot shows a terminal window on a Kali Linux desktop. The terminal output is as follows:

```
kali㉿kali:~ [mission 35] $ ls -al
total 8
drwxrwxrwx 2 kali kali 4096 Apr 14 19:21 .
drwxr-xr-x 3 kali kali 4096 Apr 14 19:21 ..

~/Castle/Main_building/Throne_room/Kings_quarter
[mission 35] $ gsh check

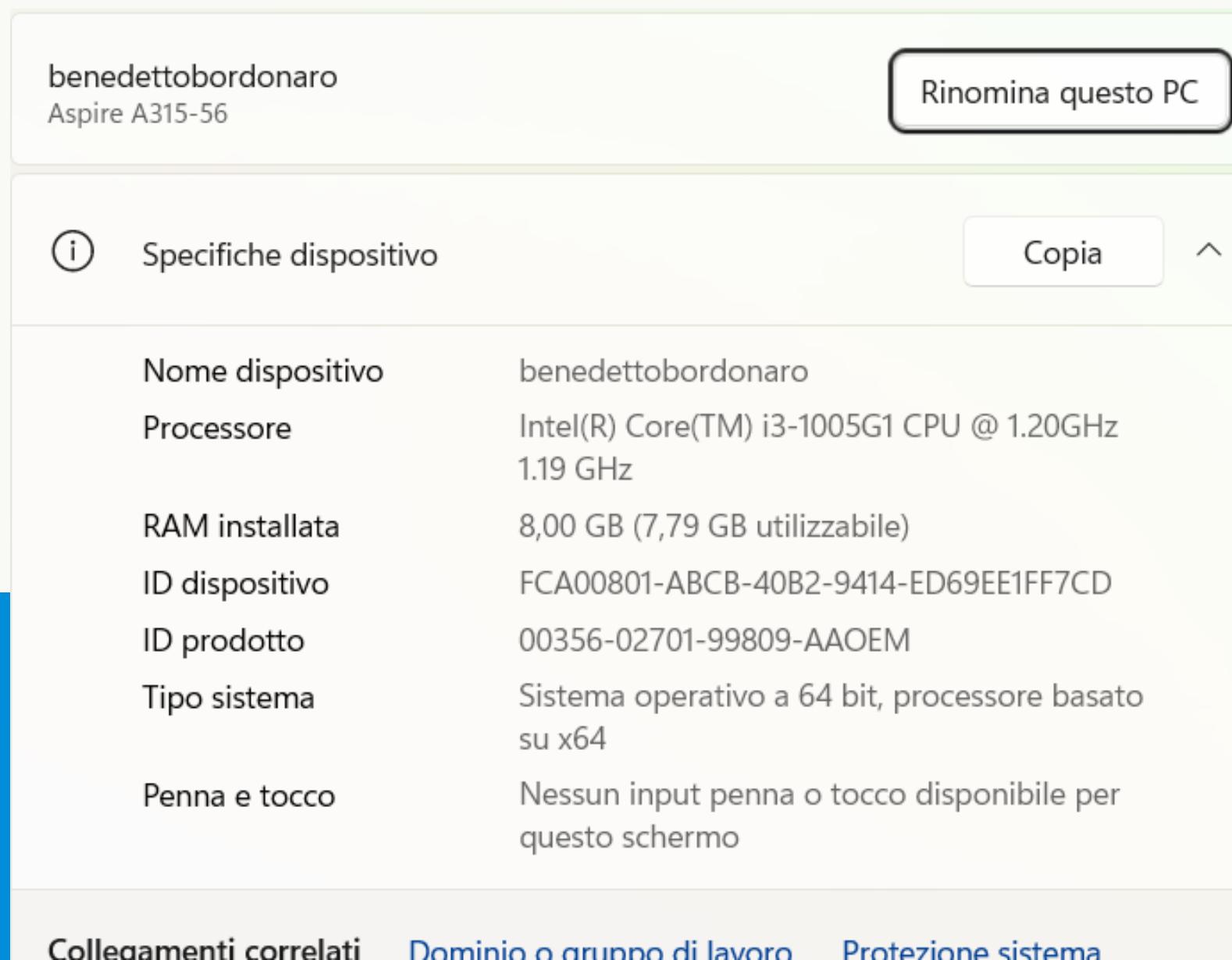
Congratulations, mission 35 has been successfully completed!

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

~/Castle/Main_building/Throne_room/Kings_quarter
[mission 36] $ gsh goal
```

# MISSION 36

Lo scopo di questa missione è di cambiare i permessi del file .secret\_note



The screenshot shows a terminal window on a Kali Linux system. The terminal window has a dark background with a castle-themed icon on the left. The command line shows the following session:

```
kali@kali: ~
[mission 36] $ ls -A
note .secret_note

~/Castle/Main_building/Throne_room/Kings_quarter
[mission 36] $ chmod 777 .secret_note

~/Castle/Main_building/Throne_room/Kings_quarter
[mission 36] $ cat .secret_note
575527307

~/Castle/Main_building/Throne_room/Kings_quarter
[mission 36] $ gsh check
What's the combination to open the King's safe? 575527307

Congratulations, mission 36 has been successfully completed!
```

Below the terminal window, there is a small text box with the following message:

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

# MISSION 37

Il scopo di questa missione è di cambiare i permessi del file crown e di spostarlo nella directory **Chest**

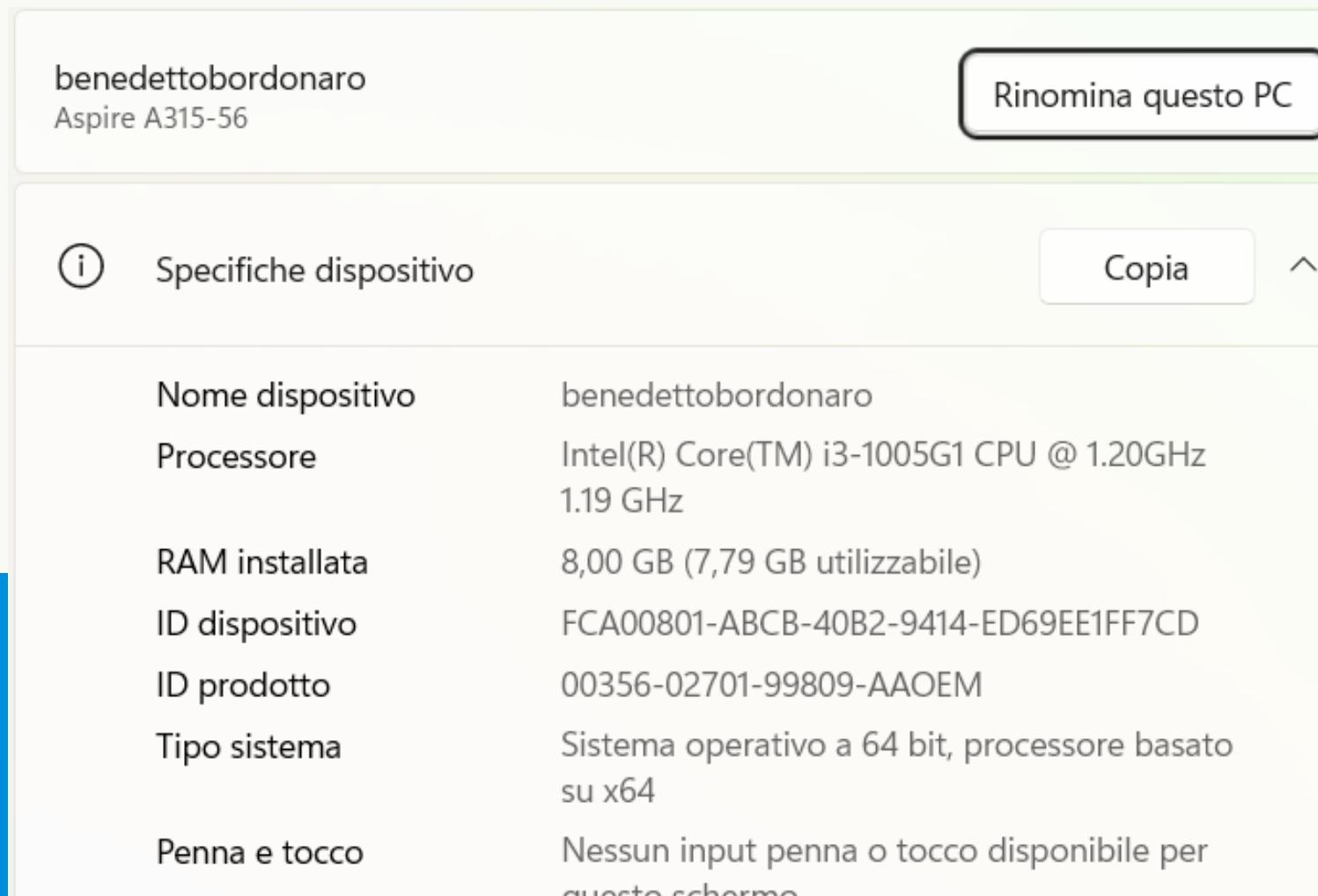
The image shows two windows side-by-side. On the left is a Windows Task Manager window titled 'benedettobordonaro' which lists the computer as 'Aspire A315-56'. It displays system information such as the device specific details, processor, RAM, and system type. A 'Copia' (Copy) button is visible in the task manager window. On the right is a terminal window titled 'kali@kali: ~' running on a Kali Linux system. The terminal shows the command '\$ mv crown ~/Forest/Hut/Chest/' being run, followed by the output of '\$ gsh check' which asks for the digits inscribed on the base of the crown. The terminal concludes with a message: 'Congratulations, mission 37 has been successfully completed!'. At the bottom of the terminal window, there is a help message for the 'gsh' command.

Specifiche dispositivo	Copia
Nome dispositivo	benedettobordonaro
Processore	Intel(R) Core(TM) i3-1005G1 CPU @ 1.20GHz 1.19 GHz
RAM installata	8,00 GB (7,79 GB utilizzabile)
ID dispositivo	FCA00801-ABCB-40B2-9414-ED69EE1FF7CD
ID prodotto	00356-02701-99809-AAOEM
Tipo sistema	Sistema operativo a 64 bit, processore basato su x64

```
kali@kali: ~
[mission 37] $ mv crown ~/Forest/Hut/Chest/
[mission 37] $ gsh check
What are the 3 digits inscribed on the base of the crown? 892
Congratulations, mission 37 has been successfully completed!
| Use the command
| $ gsh help
| to get the list of "gsh" commands
```

# MISSION 38

Lo scopo di questa missione è di cercare un file **ruby** e di muoverlo nella directory **Chest**



```
kali㉿kali:~
```

```
mv: cannot stat 'ruby': No such file or directory
mv: cannot stat '2de7d39e57f65df61d57d3ae88f6a7e88751fb7a': No such file or directory
```

```
~/Garden/Maze
[mission 38] $ mv ./dd5483166259e264/c2d23acfcb9bb359f6fedd82975cea2/1
```

```
~/Garden/Maze
[mission 38] $ gsh check
```

```
Congratulations, mission 38 has been successfully completed!
```

```
|
```

```
--+-----+--
```

```
| Use the command
```

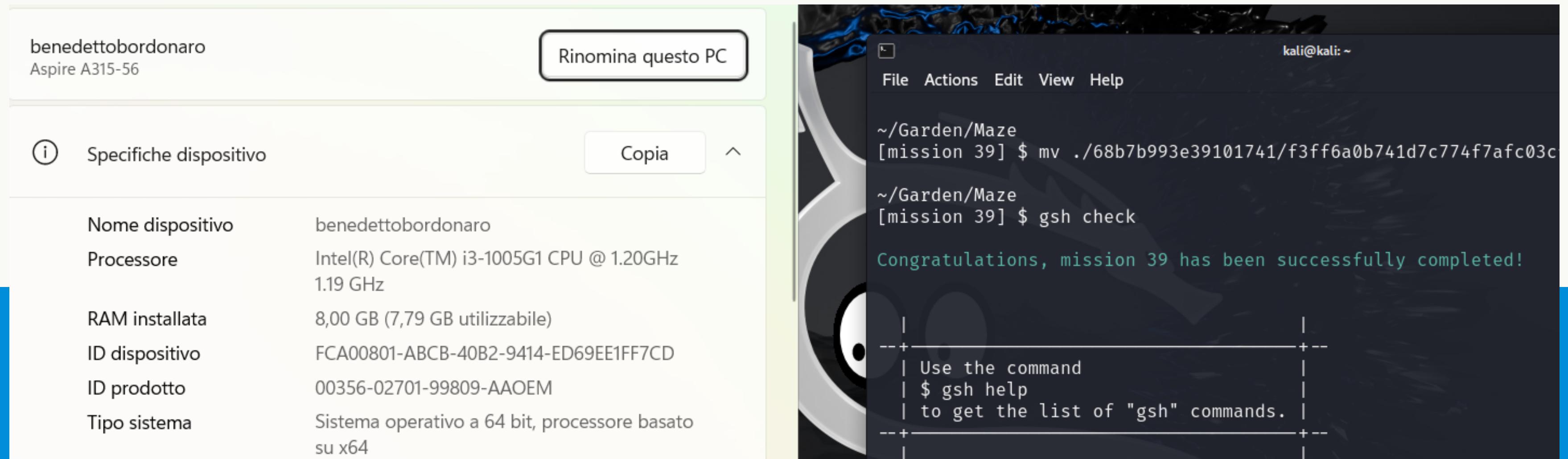
```
| $ gsh help
```

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

```
--+-----+--
```

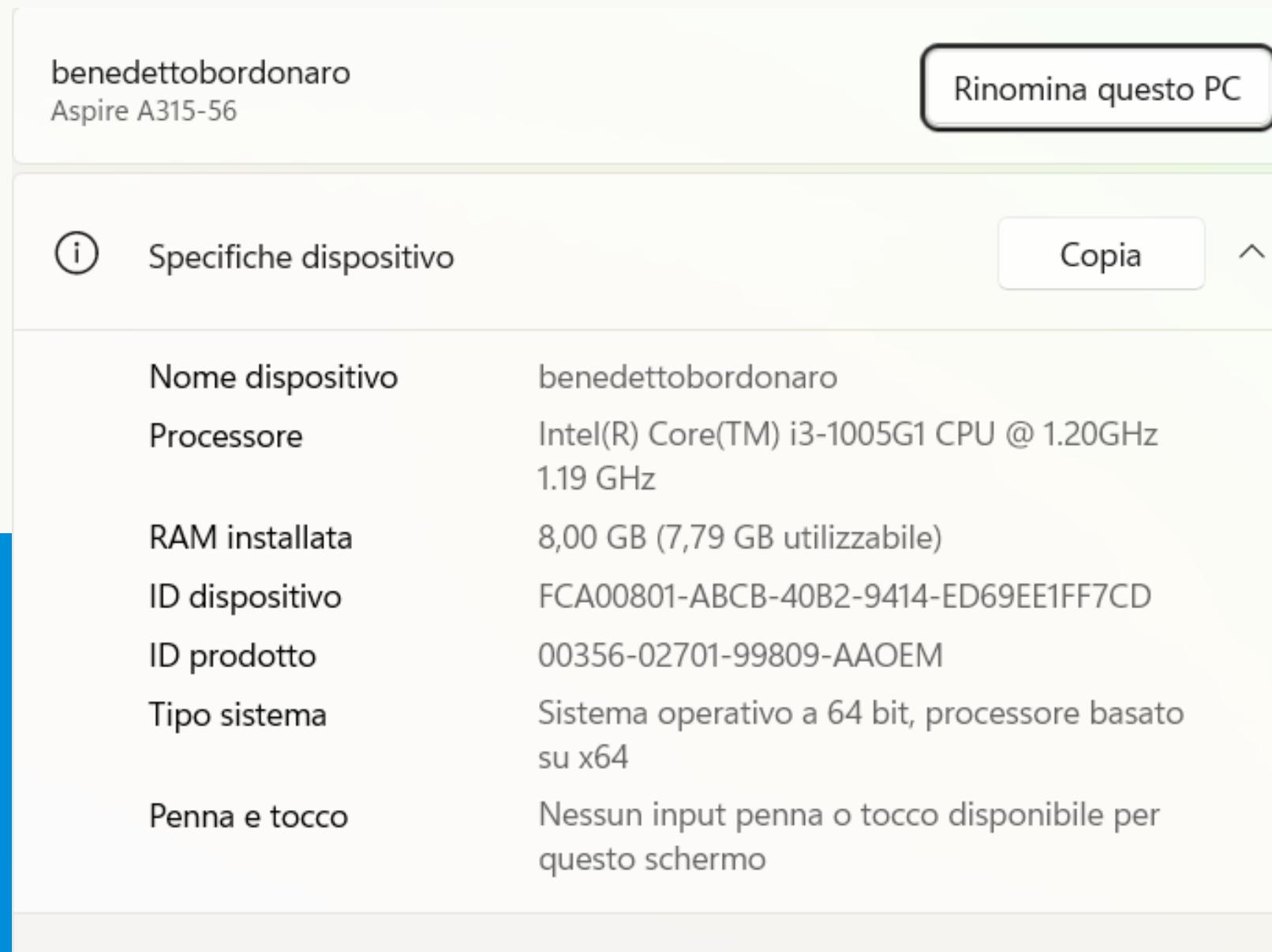
# MISSION 39

Lo scopo di questa missione è di muovere i file specificato dalla missione e di inserirlo nella directory **Chest**



# MISSION 40

Lo scopo di questa missione è di filtrare tutti i debiti e trovare quelli del re.



The screenshot shows a terminal window on a Kali Linux desktop. The terminal output is as follows:

```
kali@kali:~  
File Actions Edit View Help  
[mission 40] $ grep -v "PAID" b0f441073085d_s_c_r_o_l_l_b0f4410730  
the King bought a ruby for 6 coppers.  
the King bought a blanket for 5 coppers.  
the King bought a wooden spoon for 6 coppers.  
the King bought a shiny rock for 3 coppers.  
(2)  
~/Stall  
[mission 40] $ gsh check  
How much does the king owe? 20  
Congratulations, mission 40 has been successfully completed!  
|  
--+  
| Use the command  
| $ gsh help  
| to get the list of "gsh" commands.  
--+  
(0)
```

# MISSION 41

Lo scopo di questa missione è di restituire il numero totale di righe in tutti i file `*_s_c_r_o_l_l*` che non contengono il testo "PAID".

benedettobordonaro  
Aspire A315-56

Rinomina questo PC

Specifiche dispositivo

Copia

Nome dispositivo	benedettobordonaro
Processore	Intel(R) Core(TM) i3-1005G1 CPU @ 1.20GHz 1.19 GHz
RAM installata	8,00 GB (7,79 GB utilizzabile)
ID dispositivo	FCA00801-ABCB-40B2-9414-ED69EE1FF7CD
ID prodotto	00356-02701-99809-AAOEM
Tipo sistema	Sistema operativo a 64 bit, processore basato su x64
Penna e tocco	Nessun input penna o tocco disponibile per questo schermo

Collegamenti correlati    Dominio o gruppo di lavoro    Protezione sistema

Impostazioni di sistema avanzate

```
kali@kali: ~
File Actions Edit View Help
| |
| Use the command
| $ gsh help
| to get the list of "gsh" commands.
| |
(0)
~/Stall
[mission 41] $ grep -v "PAID" *_s_c_r_o_l_l_* | wc -l
50
(1)
~/Stall
[mission 41] $ gsh check
How many unpaid items are there? 50

Congratulations, mission 41 has been successfully completed!
```