Exercise 3

The application requires two arguments: (1) a username and (2) a password.

Use ./main <user> <password>
For example

```
> ./main roberto 1234
Start
Hello roberto
non authorized
End
> ./main roberto pwd0
Start
Hello roberto
authorized
End
> ./main hello pwd0
Start
Hello hello
authorized
End
```

Problem 3.1

Forge a username that makes the application to leak the password that is stored internally.

Since you probably need a username that contains "special" bytes, use the following procedure:

- 1. complete the python script solution3.py, which prints the forged output on the standard output
- 2. execute ./solution3.py > text to generate a file that contains the forged username
- 3. execute ./main \$(< text) hello</pre>

The target attack of the Makefile automates tasks 2 and 3. Your solution consists of the script solution3.py.

To test your solution execute =./test.py= or =py.test test.py=.

Hints

Debug the program using GDB. Find the distance between the location of the variable name and saved rip.

Do not worry if the program crashes after leaking the password.