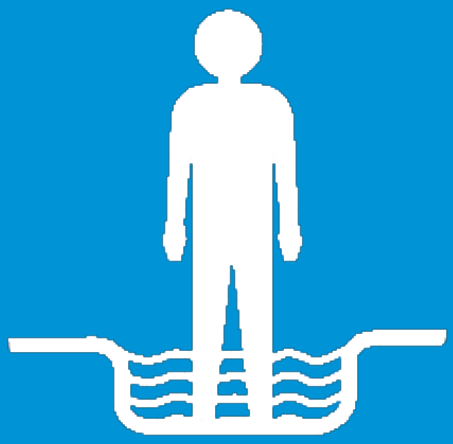
{EPITECH}

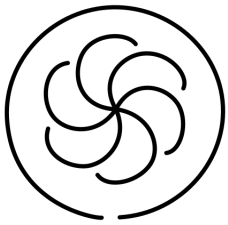
PRE-POOL

DAY 07



PRE-POOL

Code wars
In addition to the daily task below, you must go as far as possible in this code wars collection. Try to solve the first one until the last one without skipping challenges!
Work on it as soon as you have a bit of time, or whenever you need a break in you day!



Hangman game

Game engine

Let's develop a hangman game engine.
The objective is to guess a word (randomly picked from a list) with the minimum of penalties.

The player must suggest a letter at each turn.

- ✓ if the word contains this letter, the occurrences of the letter are revealed and the player gets 1 penalty;
- ✓ if the word does not contain this letter, the player gets 3 penalties.

At any time, the player can propose a full word.
If the word is the one to be guessed, the player wins.
Else, the player gets 5 penalties.

No graphical interface here, the game must be playable in a terminal.

Here is a game example:

```
Terminal
~/T-PRE-500> $>python3 hangman.py
_ _ _ _ _ _ _ _ _ _ _ _ / 0 penalty
$> A
Found two ‘A’
_ _ _ _ A _ _ _ A _ _ / 1 penalty
$> e
Found one ‘E’
_ _ E _ A _ _ _ A _ _ / 2 penalties
$> t
No ‘T’ found
_ _ E _ A _ _ _ A _ _ / 5 penalties
$> l
No ‘L’ found
_ _ E _ A _ _ _ A _ _ / 8 penalties
$> M
No ‘M’ found
_ _ E _ A _ _ _ A _ _ / 11 penalties
$> gletaminart
GLETAMINART: incorrect guess
_ _ E _ A _ _ _ A _ _ / 16 penalties
$> n
Found three ‘N’
_ _ E N A N _ _ A N _ / 17 penalties
$> S
Found two ‘S’
S _ E N A N _ _ A N S / 18 penalties
$> T
No ‘T’ found
S _ E N A N _ _ A N S / 21 penalties
$> G
Found one ‘G’
S _ E N A N _ G A N S / 22 penalties
$> SheNanigaNS
SHENANIGANS: correct guess - 22 penalties
```

Feel free to adapt the display of the game.

AI engine

If you feel over-confident, add a cheat mode by developing a little AI engine.
Here is an example:

```
Terminal
~/T-PRE-500> $>python3 hangman.py -cheat
_ _ _ _ _ _ _ _ _ _ _ _ / 0 penalty
$> ('E' advised) E
Found one 'E'
_ _ E _ _ _ _ _ _ _ _ / 1 penalty
$> ('A' advised) A
Found two 'A'
_ _ E _ A _ _ _ A _ _ / 2 penalties
$> ('S' advised) s
Found two 'S'
S _ E _ A _ _ _ A _ S / 3 penalties
$> ('H' advised) h
No 'L' found
S H E _ A _ _ _ A _ S / 4 penalties
$> ('N' advised) n
No 'M' found
S H E N A N _ _ A N S / 5 penalties
$> ('SHENANIGANS' advised) shenaniGANS
SHENANIGANS: correct guess - 5 penalties
```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v 1.2.1