classes.py

from random import randrange
import pygame
from includes.constants import (FILE_TEXT, IMG_ETHER,
IMG_GUARDIAN, IMG_MAC, IMG_NEDDLE,
IMG_SPRITES, IMG_TUBE, OBJECTS, SPRITE_NUMBER,
SPRITE_SIZE)

class Maze:

"""Open the text file and generates the structure of the labyrinth.

```
def __init__(self, txt_file=FILE_TEXT):
    self.txt_file = txt_file
    self.structure = 0
    self.macgyver_pos = ()

# Launch private mehtod
    self.__generate()
    self.__get_position_mac()

def __generate(self):
    ...

def __get_position_mac(self):
```

def display_maze(self, window):

macgyver_maze_game.py
Programme principal

labyrinth scheme.txt

```
Contient la structure du labyrinthe:
s wwwwwwwwww
www www w
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wwww www
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```

macgiver py

```
import pygame

from includes.constants import IMG_MAC,
SPRITE_NUMBER, SPRITE_SIZE

class MacGyver:
    """MacGyver movement management."""

def __init__(self, level):
    self.level = level

# Initial position of MacGyver
    self.case_x, self.case_y = level.macgyver_pos
    self.x = self.case_x * SPRITE_SIZE
    self.y = self.case_y * SPRITE_SIZE

def move(self, direction):
    ...
```

constants.py

```
△ SPRITE_NUMBER = 15
  SPRITE SIZE = 30
  WIDTH = HEIGHT = SPRITE NUMBER * SPRITE SIZE
  DISPLAY SIZE = (WIDTH, HEIGHT)
  TITLE WINDOW = "MacGyver Maze Game"
  ICON GAME = "includes/img/MacGyver.png"
  IMG SPRITES = "includes/img/floor-tiles-20x20.png"
  IMG MAC = "includes/img/MacGyver.png"
  IMG GUARDIAN = "includes/img/Gardien.png"
  OBJECTS = ["ether", "neddle", "tube"]
  IMG NEDDLE = "includes/img/aiguille.png"
  IMG TUBE = "includes/img/tube plastique.png"
  IMG ETHER = "includes/img/ether.png"
  COLOR BG = (255, 255, 255)
  COLOR FG = (0, 0, 0)
  FONT = ("includes/font/IndieFlower.ttf")
  FILE TEXT = ("includes/labyrinth scheme.txt")
```