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Game Of Life Exercise

What is game of life?

Read the first and second sections in the Wikipedia article:
https://en.wikipedia.org/wiki/Conway's_Game_of_Life

Your task

Create a python script called gameoflife.py simulating the game of life and printing it to the shell.

The script accepts two command line arguments:

state_file_path

- Path to a file containing the initial state for the simulation. You may choose the format of the file.

generations

- The number of generations to run the simulation.

For example:

```
bash-3.2$ python gameoflife.py ~/initial_state.txt 1000
```


Will run the simulation 1000 generations, starting with the state encoded in initial_state.txt

Notes:

- Print the new state every 100ms

- Each time you print the new state, it should override the previous output in the shell so as to create an animation.

Example Output

This is the last output of the script for some 7×3 board. "*" signifies living cells.

```
bash-3.2$ python gameoflife.py ~/initial_state.txt 1000
| *** **|
|** *   |
|       |
bash-3.2$
```

Time to complete:

1 hour