



UNIVERSIDAD NACIONAL AUTÓNOMA DE MÉXICO

FACULTAD DE ESTUDIOS SUPERIORES ARAGÓN INGENIERÍA EN COMPUTACIÓN

Estructura de Datos

Profesor. Jesús Hernández Cabrera

Grupo: 1360

Castro Vázquez Luis Alfredo

```
🏺 Array2D.py X 🟺 JuegoDeLaVida.py M 💮 JuegoMain.py 1, M ◎
0
           Tarea 6 > Array2D,y > Array2d > Ogetitem

class Array2d:

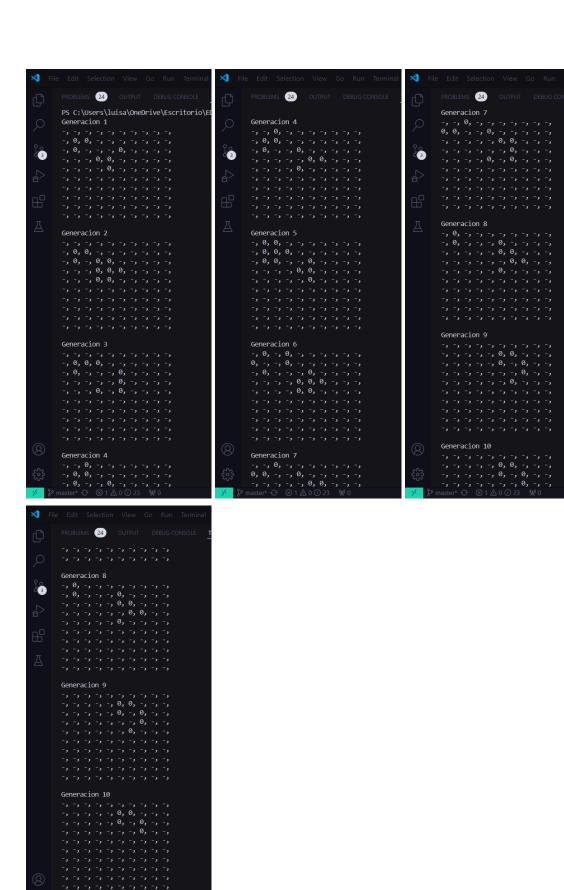
def _init_(self, ren, col):
    self.roosize = ren
    self.colsize = col
    self.data = [[" for _ in range(col)] for _ in range(ren)]
3
                                    def get colSize(self):
    return self.colSize
                                   def get item(self, ren, col):
    if 0 <= ren < self.rowSize and 0 <= col < self.colSize:
        return self.data[ren][col]
    else;
        print("indices fuera de rango.")</pre>
                                    def set item(self, ren, col, dato):

if 0 <= ren < self.rowSize and 0 <= col < self.colSize:

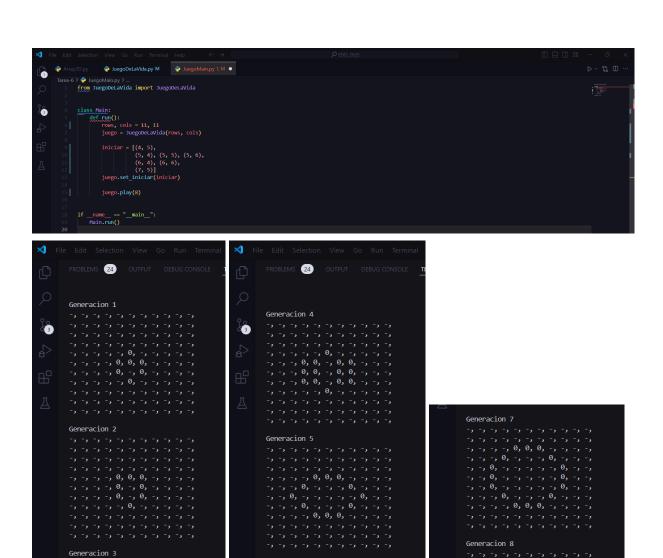
self.data[ren][col] = dato
                                             else:
                                                     print("Índices fuera de rango.")
                                    def clear(self, dato):
    for i in range(self.rowSize):
        for j in range(self.colSize):
        self.data[i][j] = dato
                                   def __str__(self):
    str_rep = ""
    for i in range(self.rowSize):
        for j in range(self.colSize):
            str_rep += f*{self.data[i][j]}, "
        str_rep += "\n"
    return str_rep
                                           🔁 JuegoDeLaVida.py M 🗙 🏺 JuegoMain.py 1, M 🍨
0
            Tarea-6 > JuegoDeLaVida.py > JuegoDeLaVida

1 from Array2D import Array2d
                          class JuegobeLavida:
    def _init__(self, row, col):
        self.tablero = Array2d(row, col)
        self.rows = row
        self.cols = col
        self.tablero.clear('-') # 'x' es una cétula muerta
3
                                   for d in direcciones:
   new_row, new_col = row + d[0], col + d[1]
   if 0 <= new_row < self.rows and 0 <= new_col < self.cols:
        if self.tablero.get item(new_row, new_col) == '0':
        vecinos_vivos += 1</pre>
                                   def set iniciar(self, celulas_vivas):
    for celula in celulas_vivas:
                                            for i in range(self.rows);
    for j in range(self.cols);
        vections_vivos = self.get_vections_vivos(i, j)
        celula_actual = self.tablero.get_item(i, j)
```

```
| Promite | Season | Property | P
```



PS C:\Users\luisa\OneDrive\Escritorio\ED



Generacion 3

PS C:\Users\luisa\OneDrive\Escritorio\ED