

# **Unidade V:**

## **Estruturas de Dados Básicas**

### **com Alocação Flexível - Matriz**

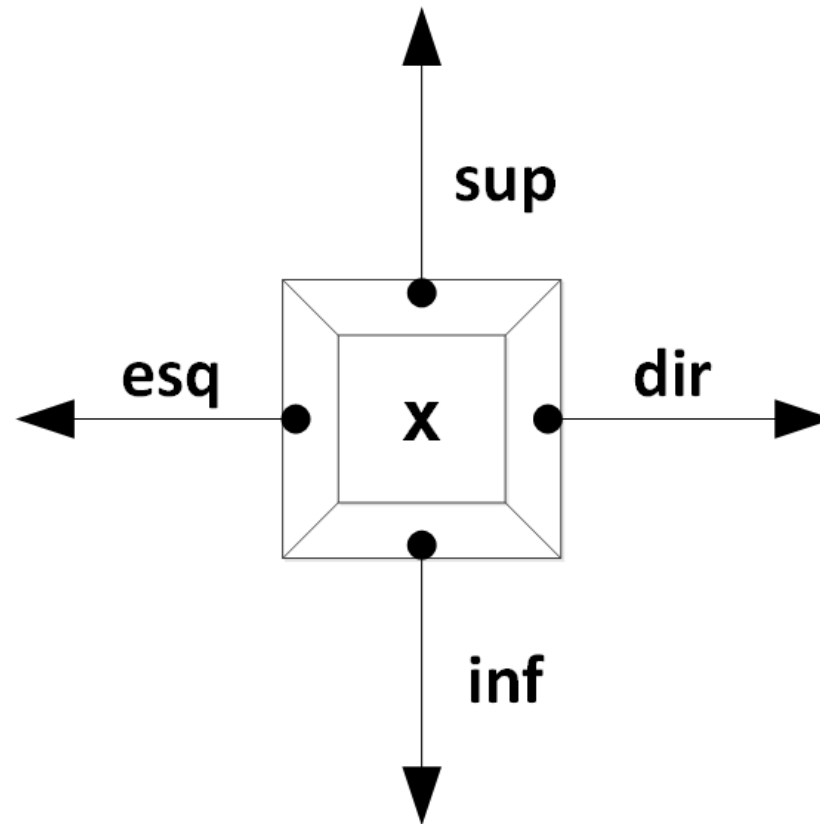
**Prof. Max do Val Machado**



**PUC Minas**

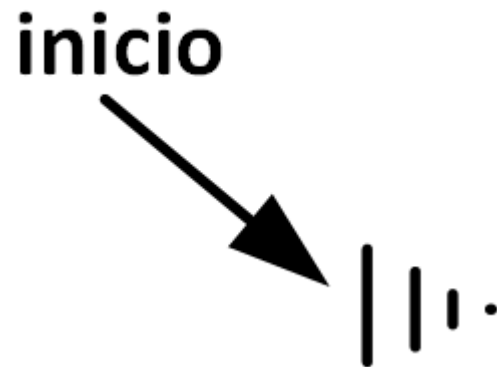
Instituto de Ciências Exatas e Informática  
Curso de Ciência da Computação

- Nossa célula tem os ponteiros **esq**, **dir**, **inf** e **sup**



# Classe Matriz

- Nossa classe Matriz tem o atributo Celula inicio cujo valor inicial é null



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- The diagram illustrates a 3x3 grid of neurons, labeled  $a_{00}$  through  $a_{22}$ . Each neuron is represented by a square box with a smaller square inside. Connections between neurons are shown as lines with arrows indicating the direction of information flow. Horizontal connections exist between adjacent neurons in each row, with arrows pointing both left and right. Vertical connections exist between adjacent neurons in each column, with arrows pointing both up and down. Diagonal connections exist between neurons that are one step apart in both horizontal and vertical directions (e.g.,  $a_{00}$  to  $a_{11}$ ), with arrows pointing both towards and away from the center. Each neuron has an external input/output connection on its left and right sides, represented by a line with a double vertical bar and an arrow pointing outwards. Additionally, each neuron has a top and bottom connection, represented by a line with a double horizontal bar and an arrow pointing outwards. An arrow labeled "inicio" points to the top-left neuron ( $a_{00}$ ).

# Classe Matriz

- Podemos implementar soma, multiplicação, `getDiagonalPri`, `getDiagonalSec`, ...

