

Estrutura de Dados

Prof. Rafael Nunes

Listas

Aula 05 - Parte 2

Lista Dinâmica

(Uso Geral)

Lista Dinâmica (Uso Geral)

- A Lista vai sendo alocada de acordo com a necessidade
- Uma lista dinâmica deve ser sempre inicializada com o valor NULL
- A cada inserção a Lista aloca (armazena) o tamanho do nó (ou célula) para armazenar o dado
- Vejamos um exemplo...

A Estrutura do nó (célula)

A Estrutura do nó (célula)

```
struct lista  
{  
    char info;  
    struct lista *prox;  
};
```



```
typedef struct lista TLista;
```

A Estrutura do nó (célula)

```
struct lista
```

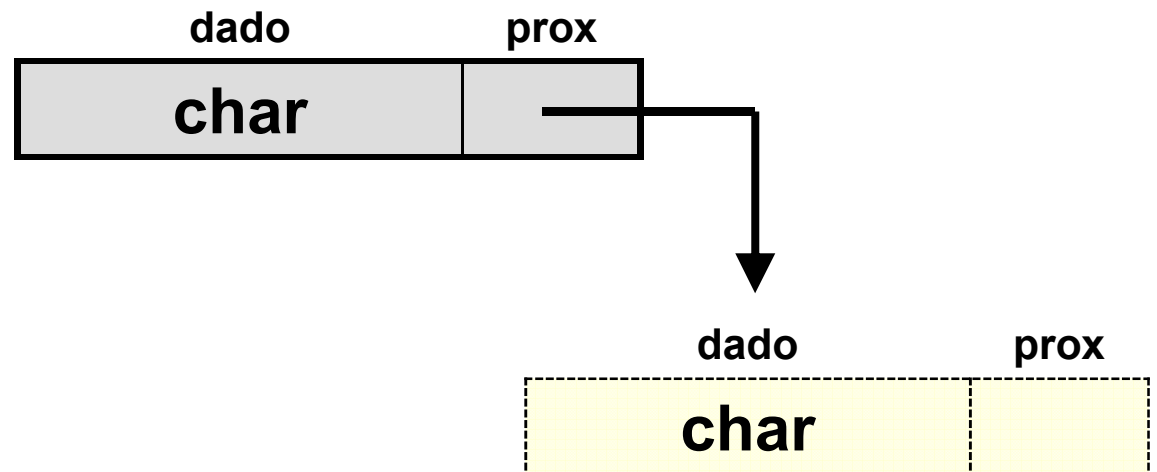
```
{
```

```
    char dado;
```

```
    struct lista *prox;
```

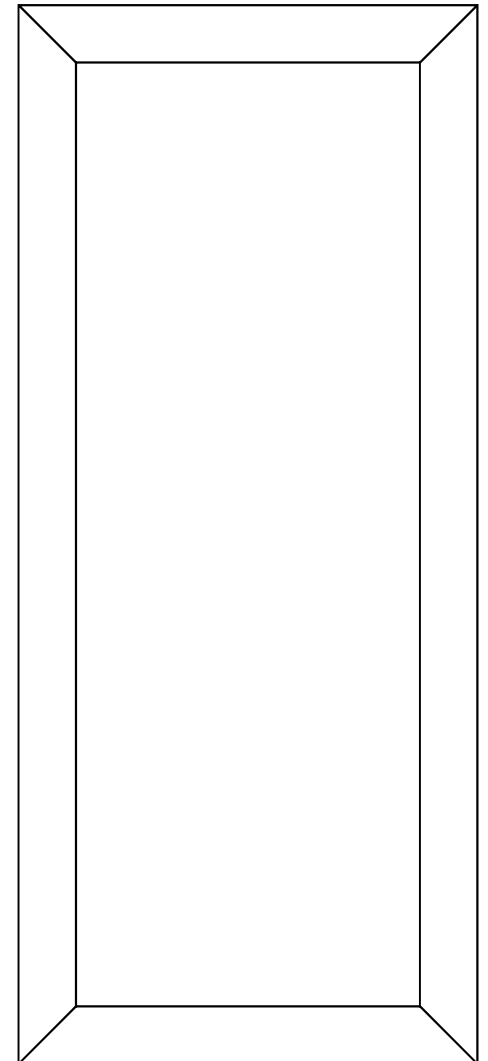
```
};
```

```
typedef struct lista TLista;
```



Lista Dinâmica

Memória RAM
(Computador)

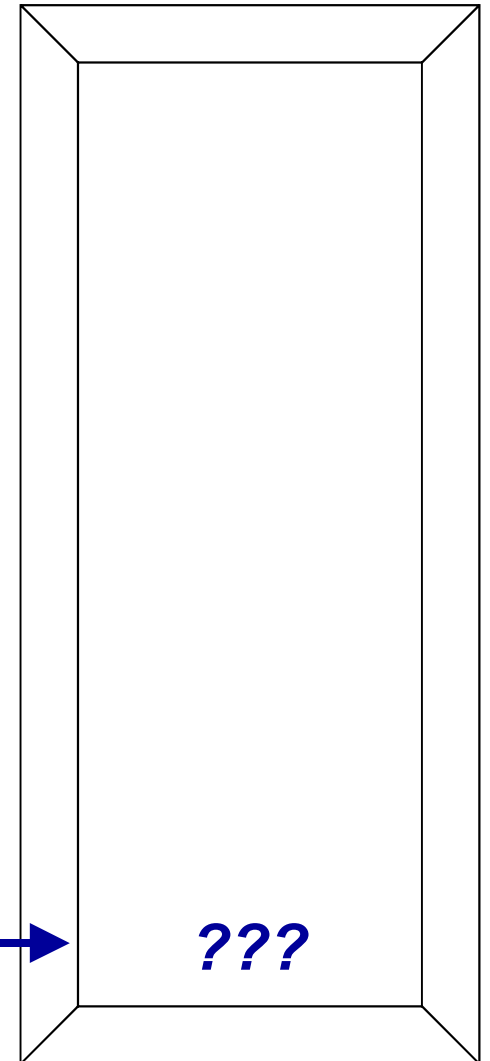


Lista Dinâmica

Memória RAM
(Computador)

Listax →

???

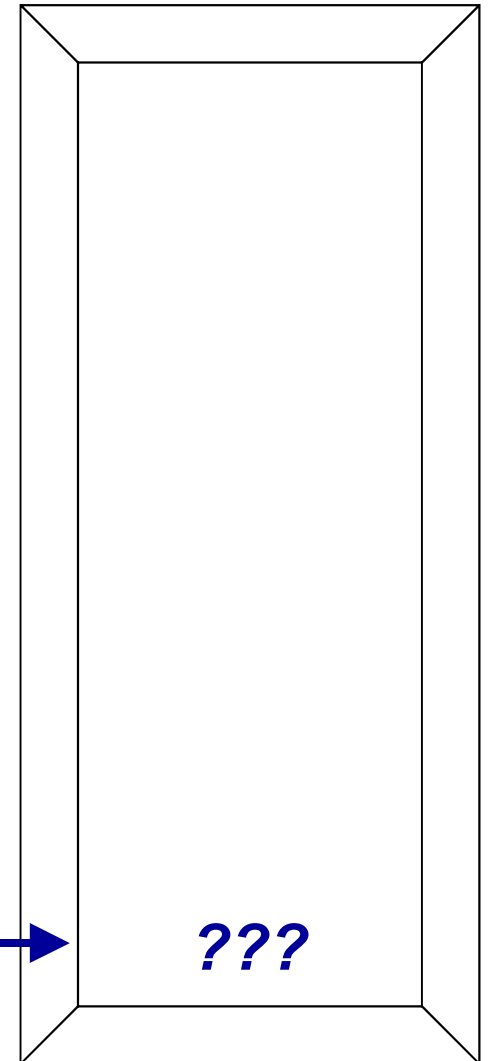


Lista Dinâmica

Memória RAM
(Computador)

Listax →

???

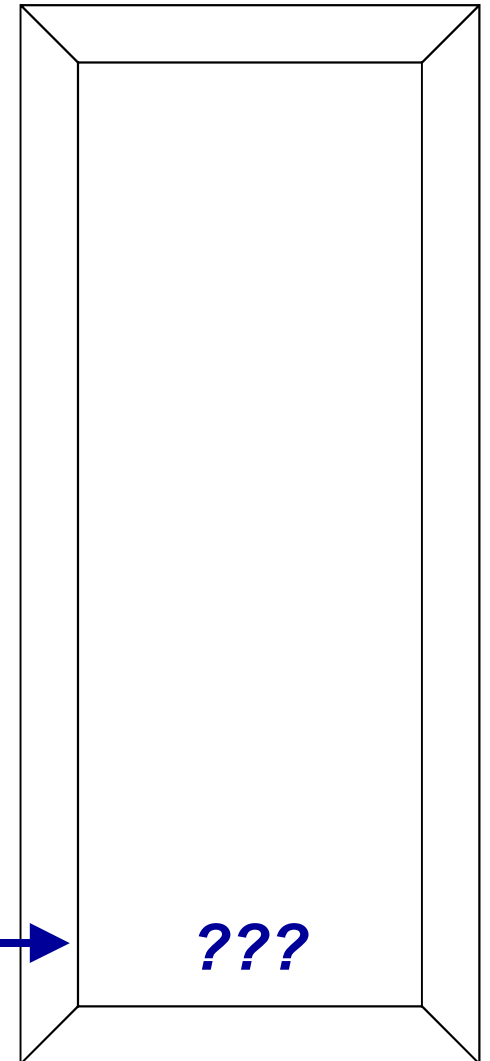


Lista Dinâmica

Memória RAM
(Computador)

Listax →

???

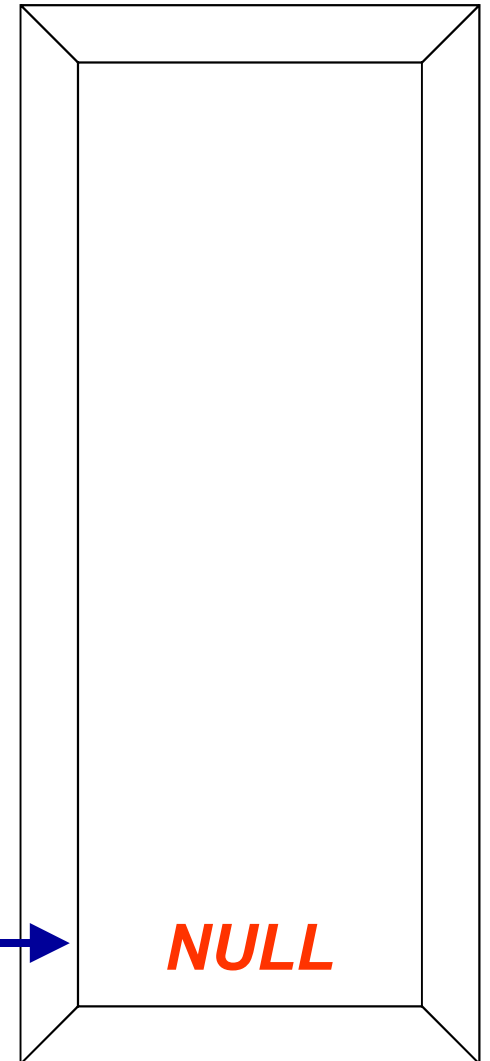


Lista Dinâmica

Memória RAM
(Computador)

Listax →

NULL



Lista Dinâmica

Memória RAM
(Computador)

Listax →

NULL

A diagram illustrating a dynamic list structure. It features a large, empty rectangular box with a double border, representing a memory block in RAM. The box is labeled "Memória RAM (Computador)" at the top. A blue arrow labeled "Listax" points to the bottom-left corner of the box. Inside the box, at the bottom-right corner, the word "NULL" is written in red, indicating the end of the list.

Lista Dinâmica

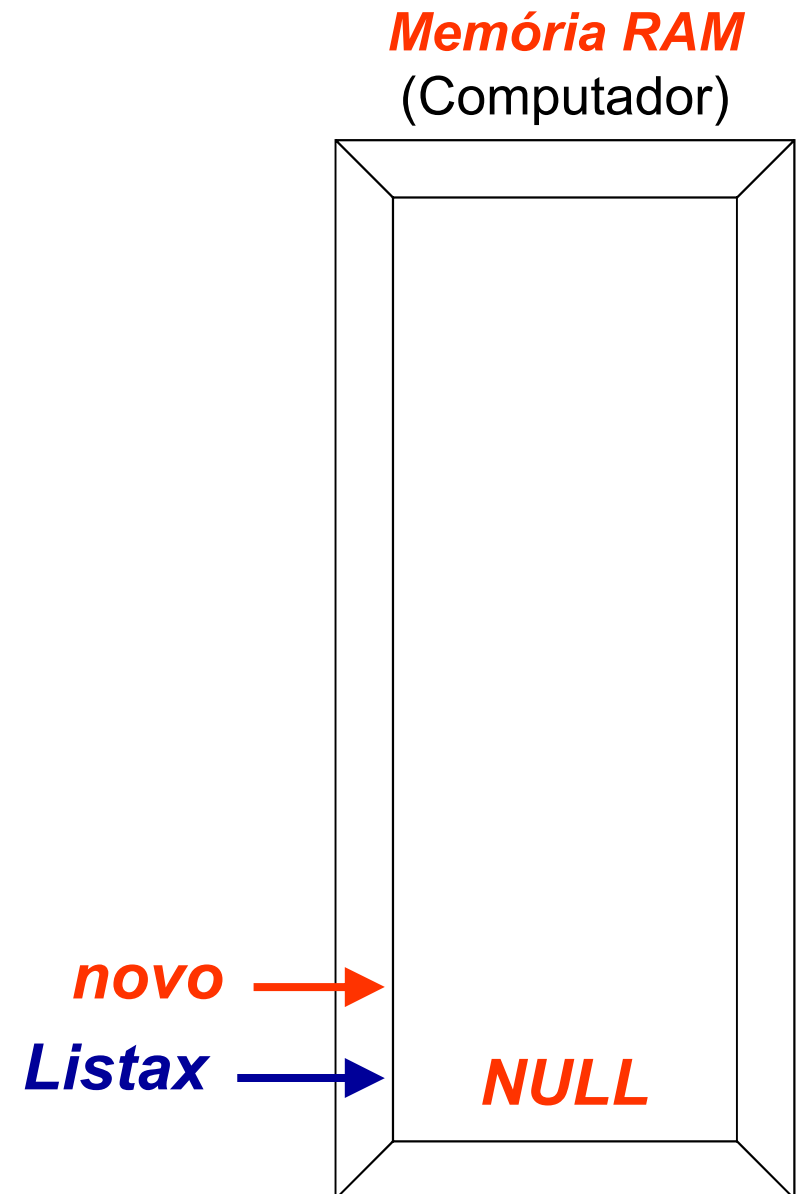
Memória RAM
(Computador)

Listax →

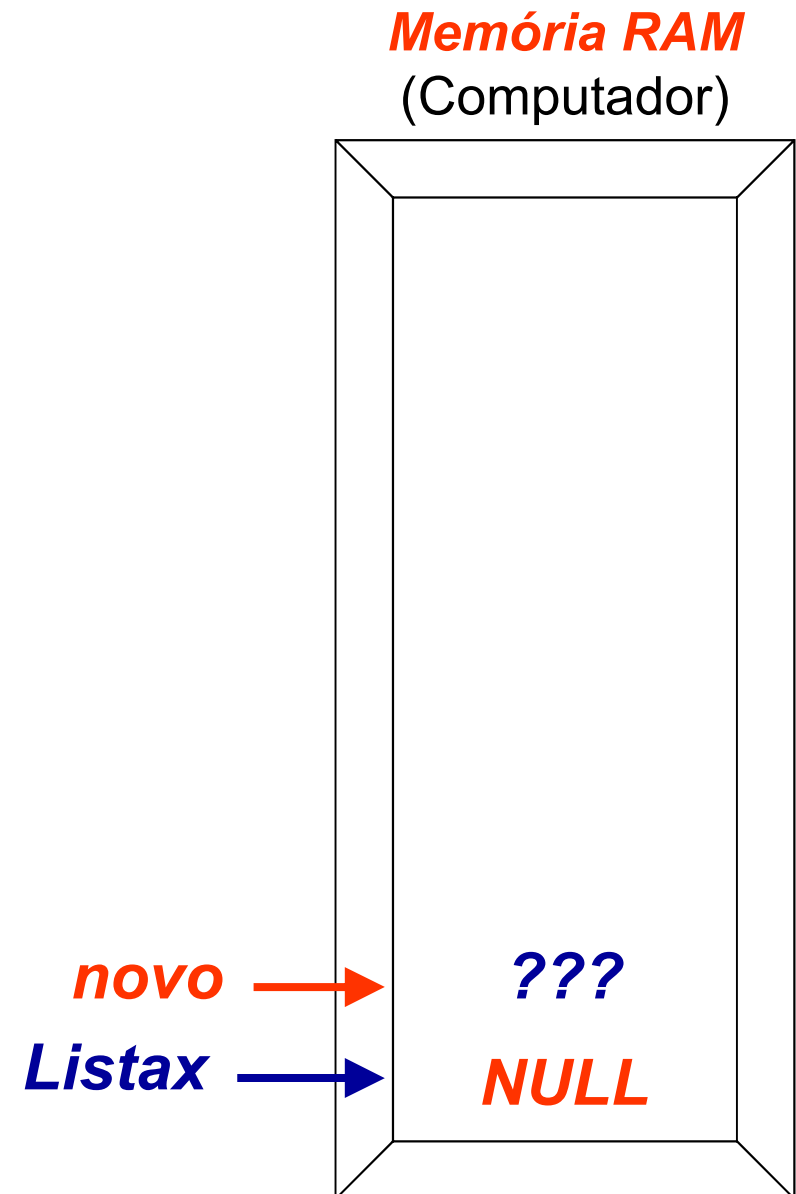
NULL

A diagram illustrating a dynamic list structure. It features a large, empty rectangular box with a double border, representing a memory block in RAM. The text "Memória RAM (Computador)" is positioned above the box. A blue arrow labeled "Listax" points to the bottom-left corner of the box. Inside the box, at the bottom-right corner, the word "NULL" is written in red, indicating the end of the list.

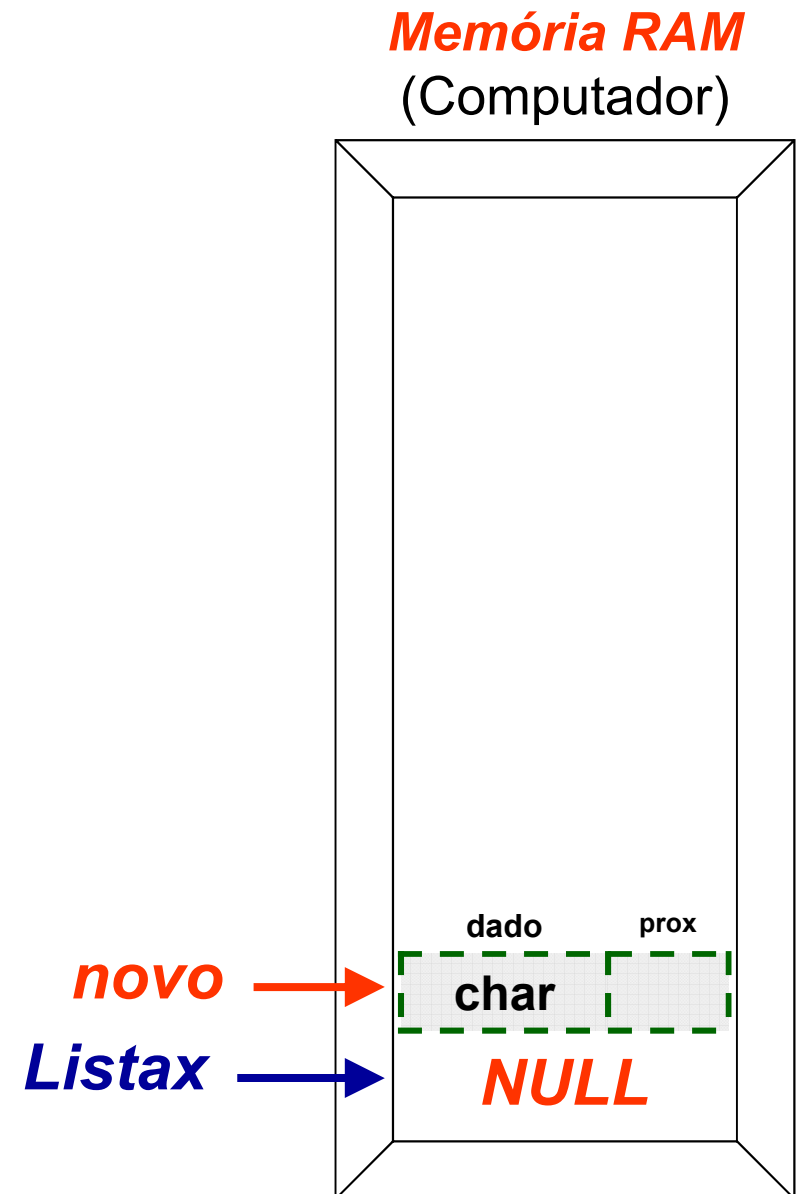
Lista Dinâmica



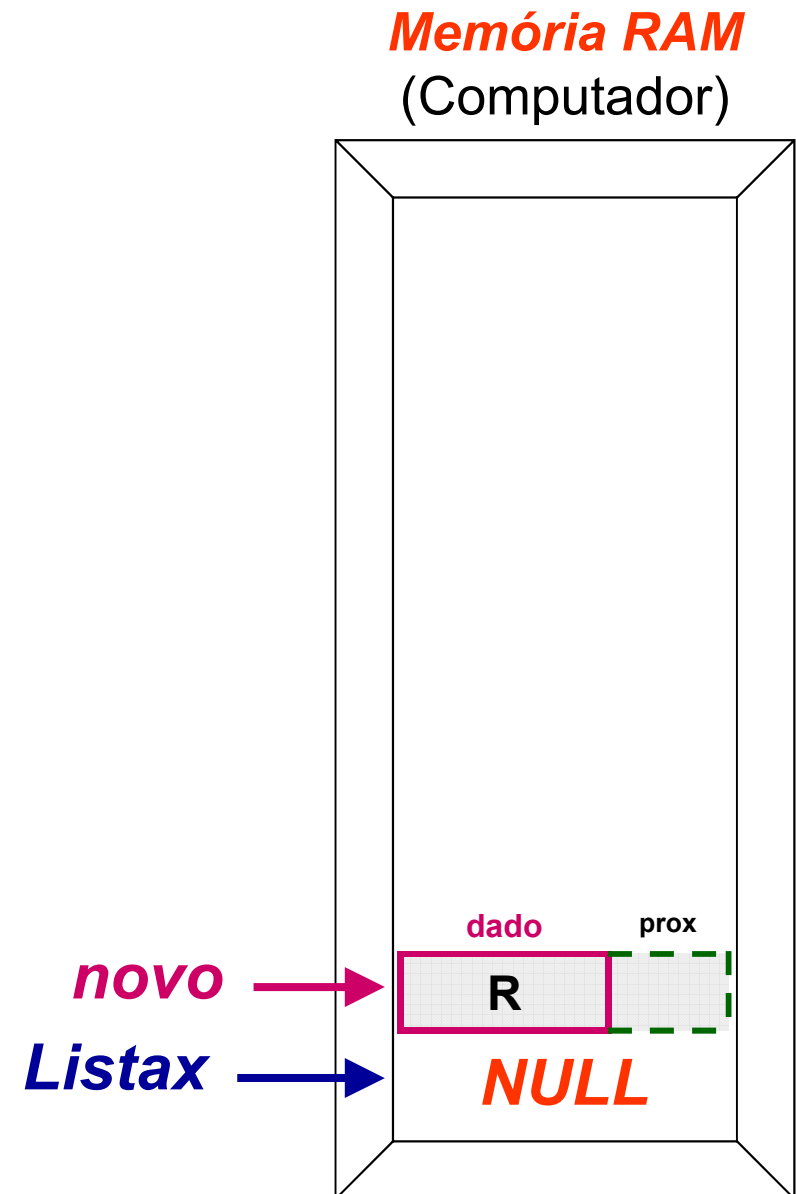
Lista Dinâmica



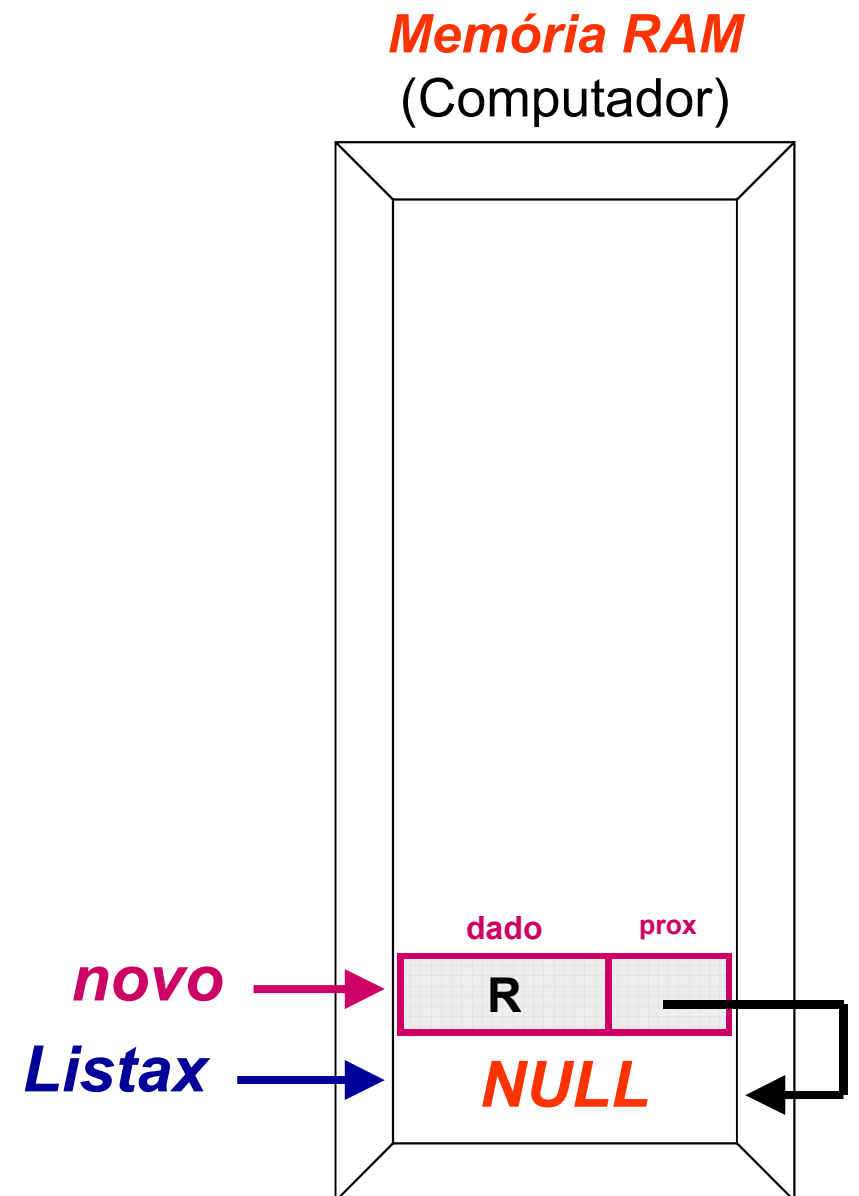
Lista Dinâmica



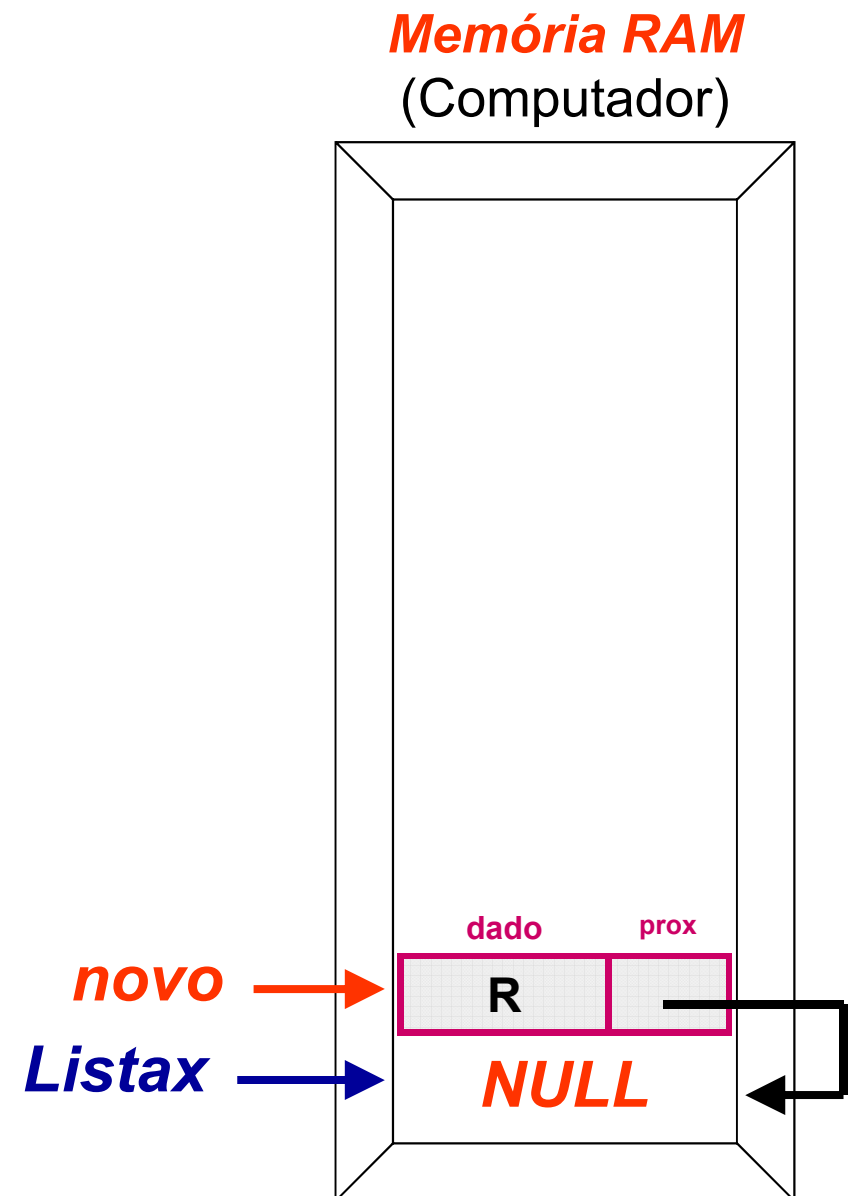
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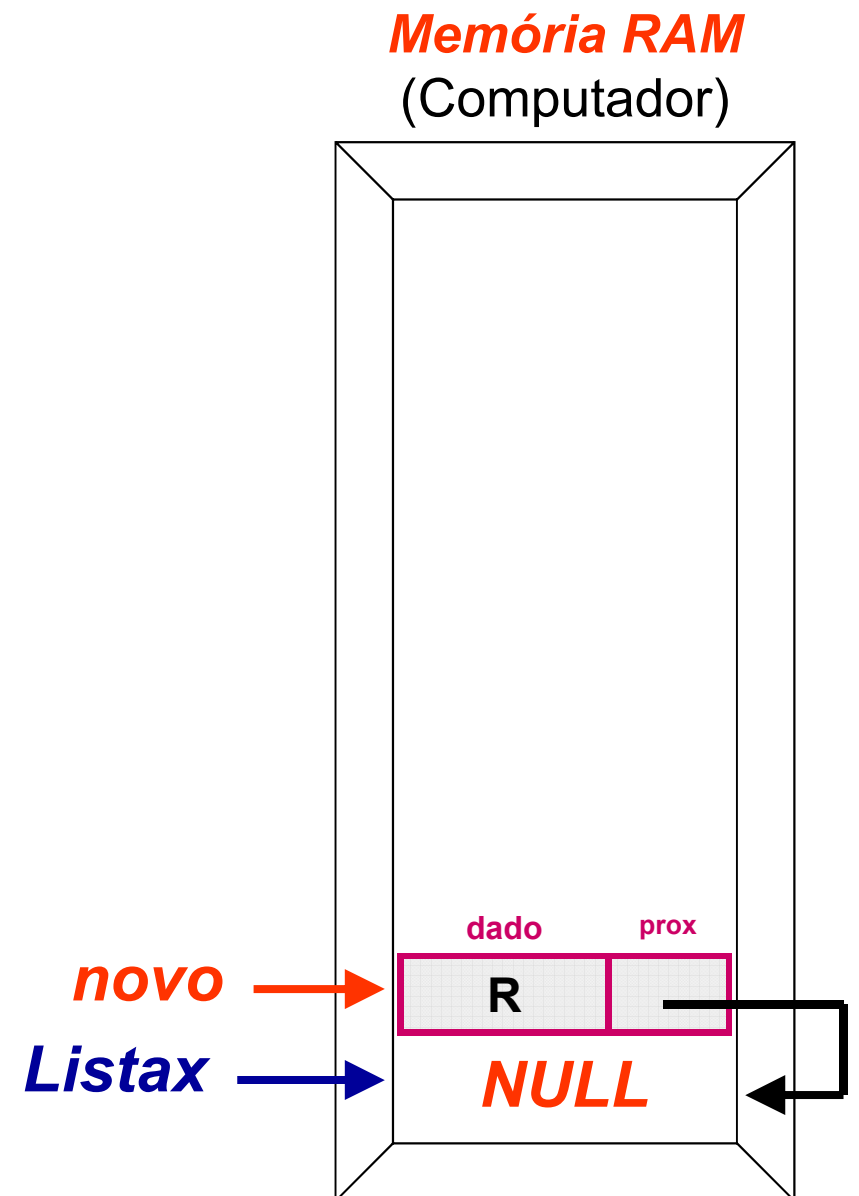
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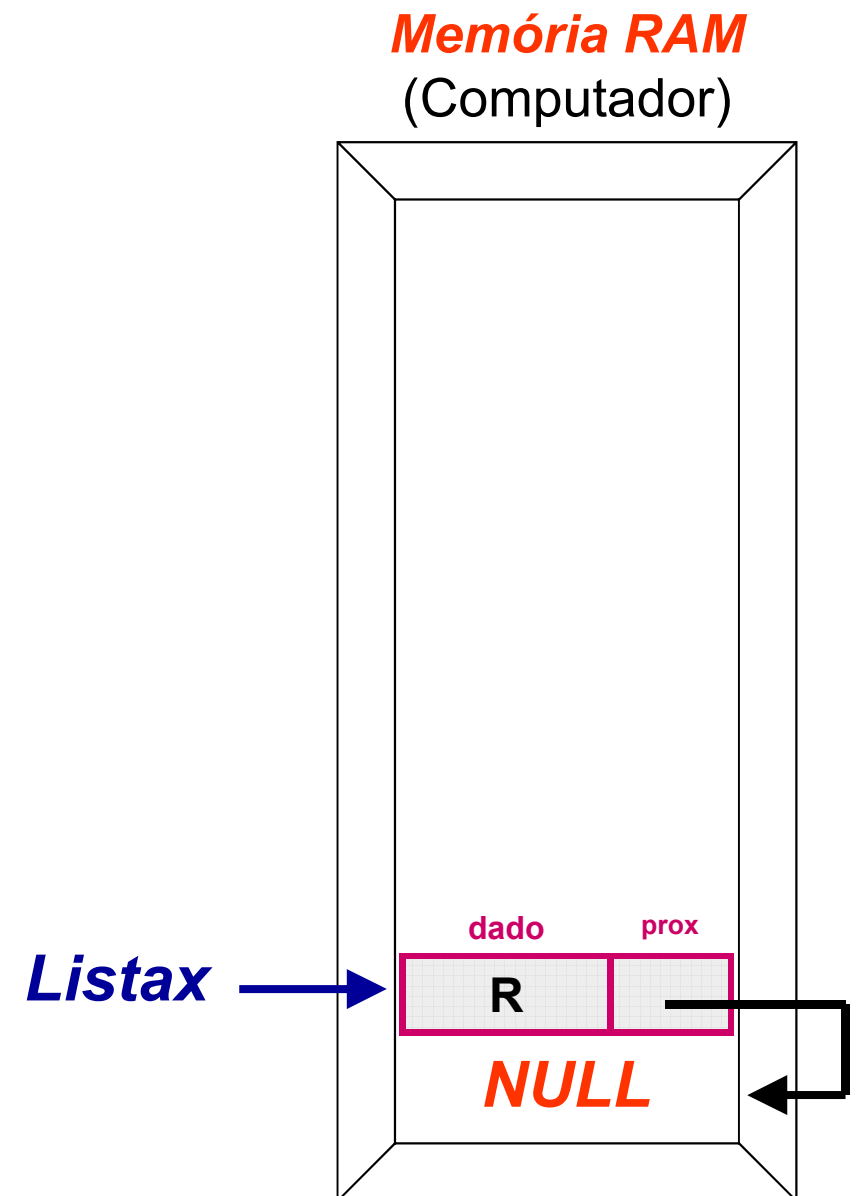
Lista Dinâmica



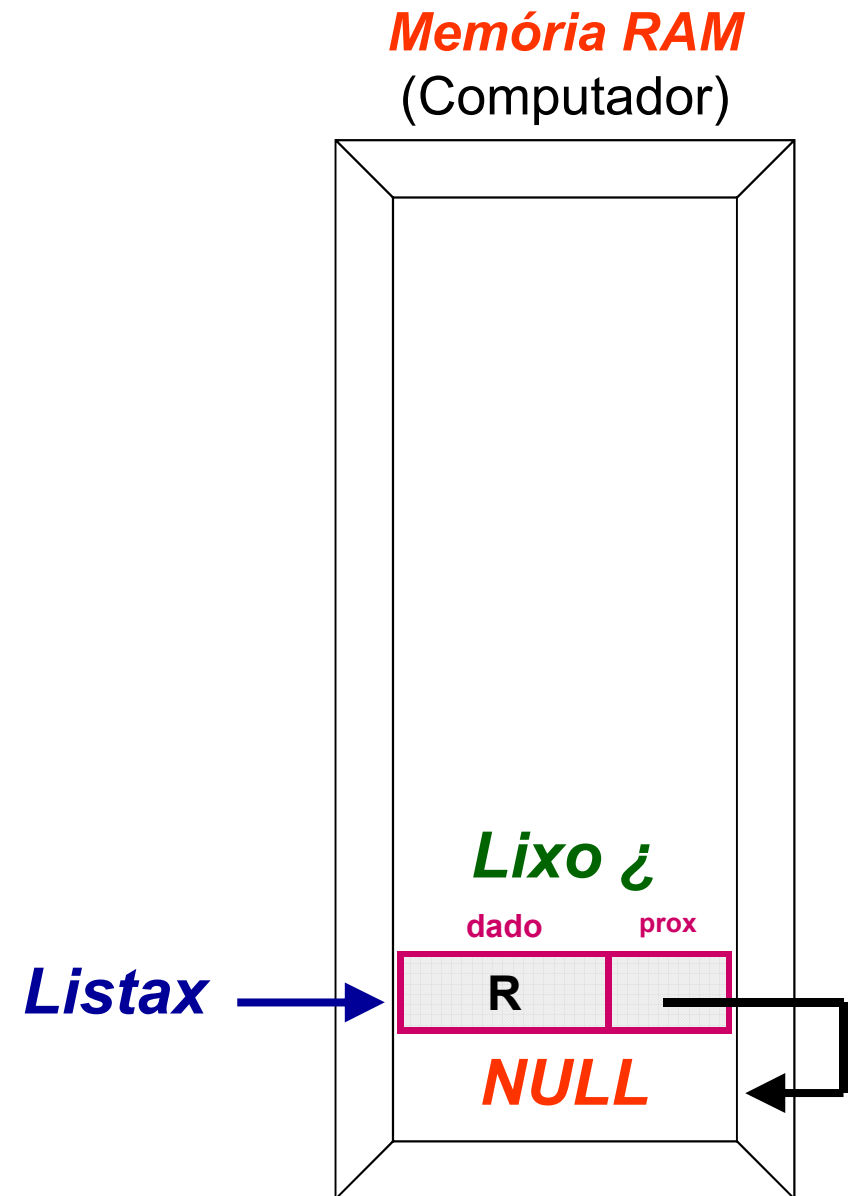
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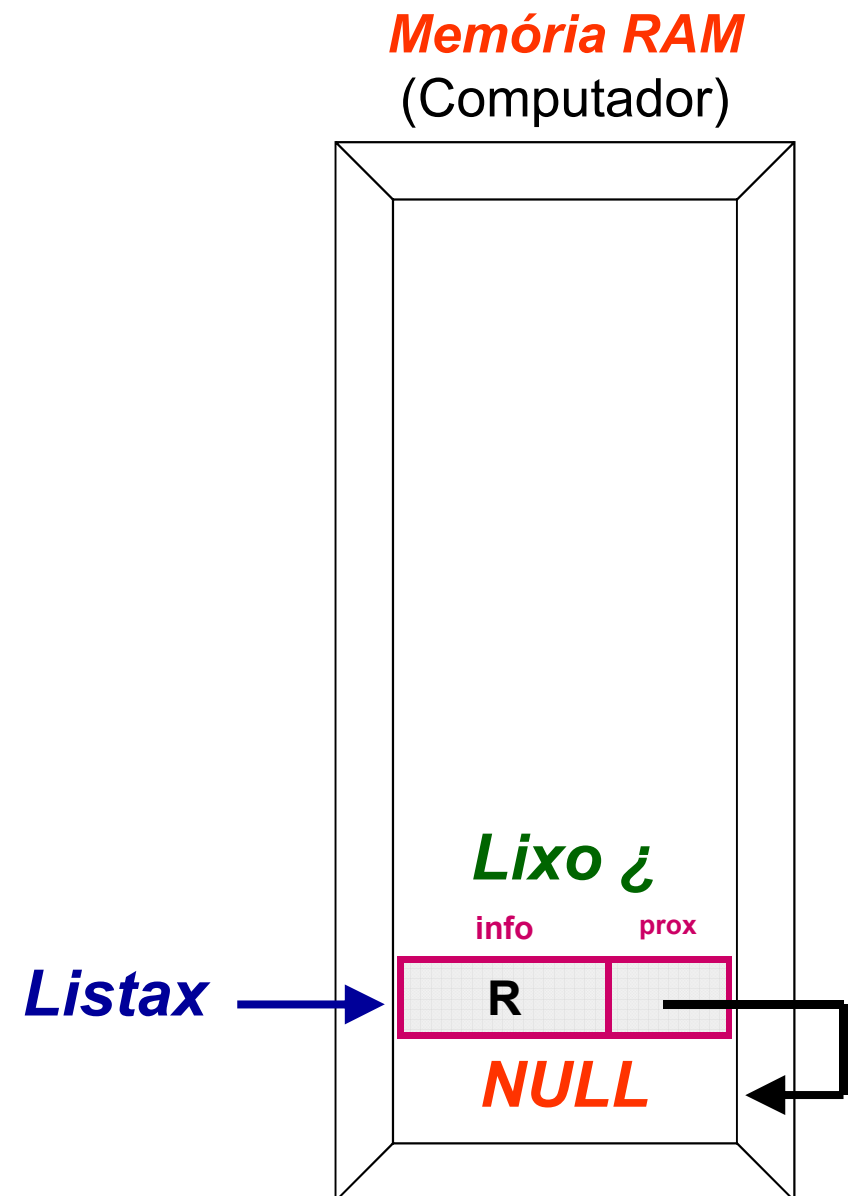
Lista Dinâmica



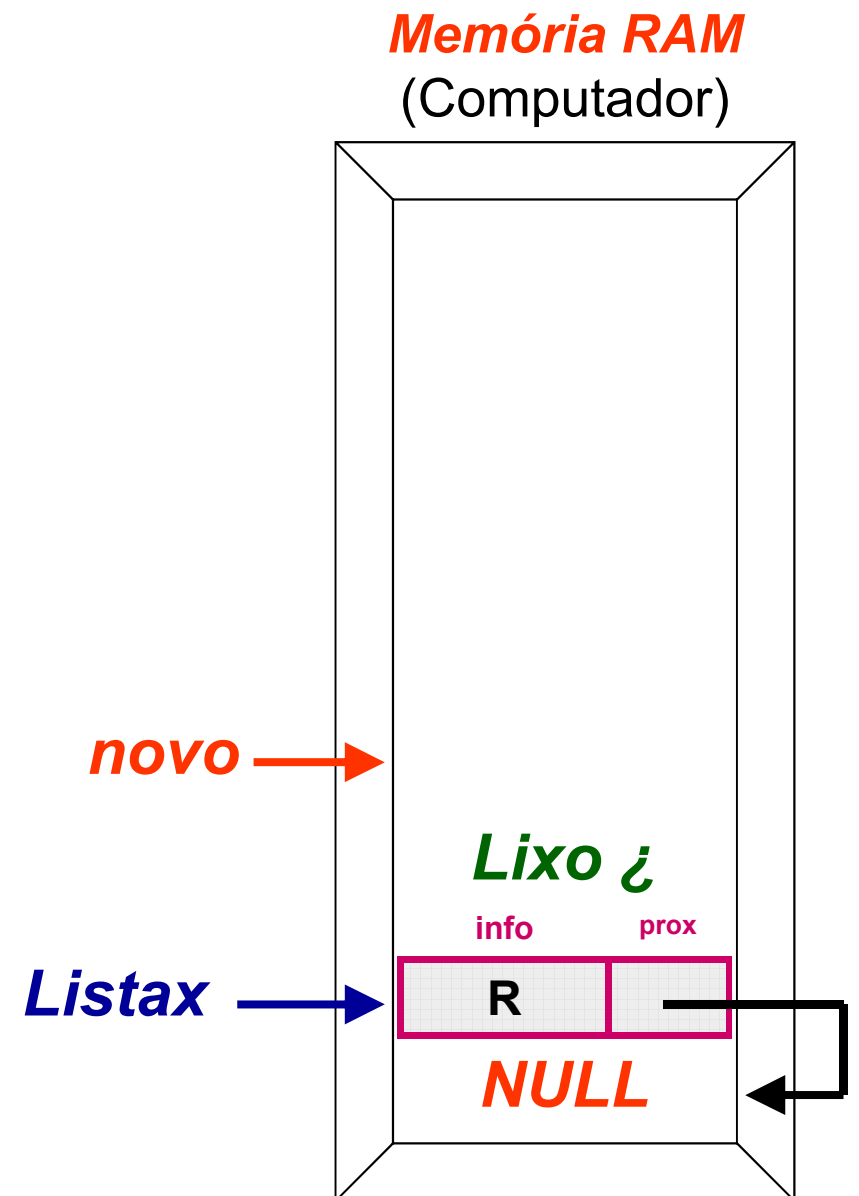
Lista Dinâmica



Lista Dinâmica

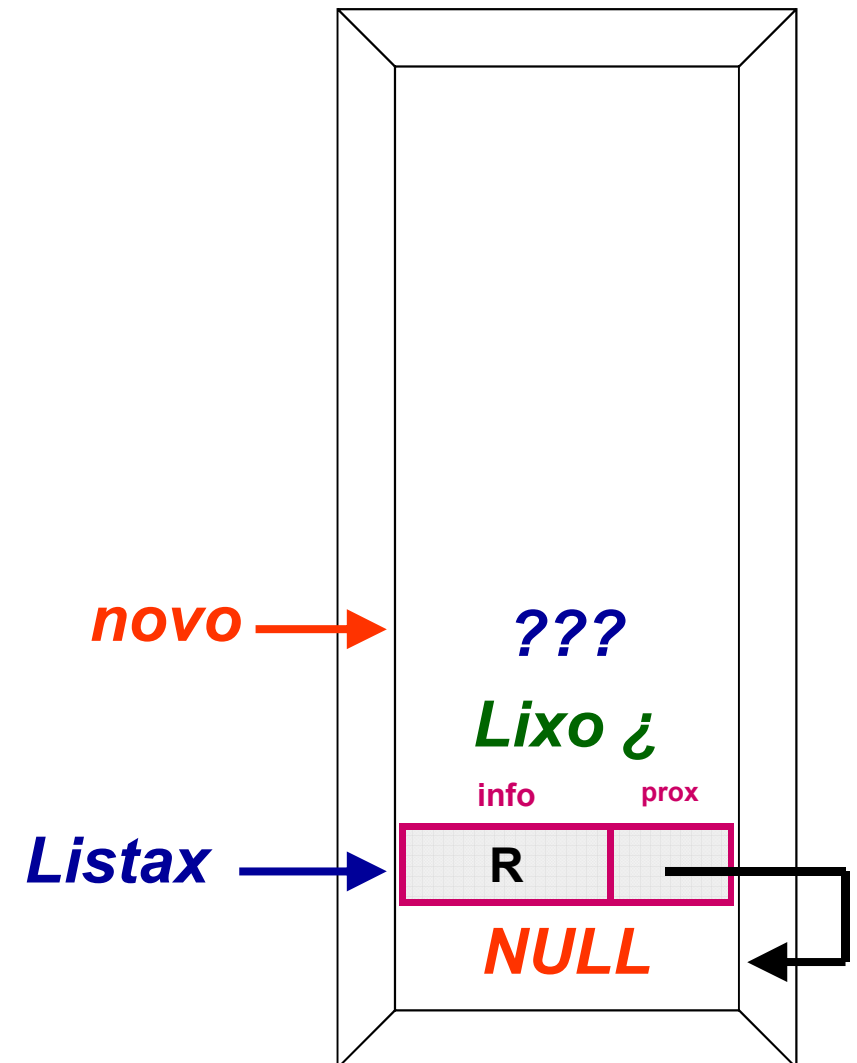


Lista Dinâmica

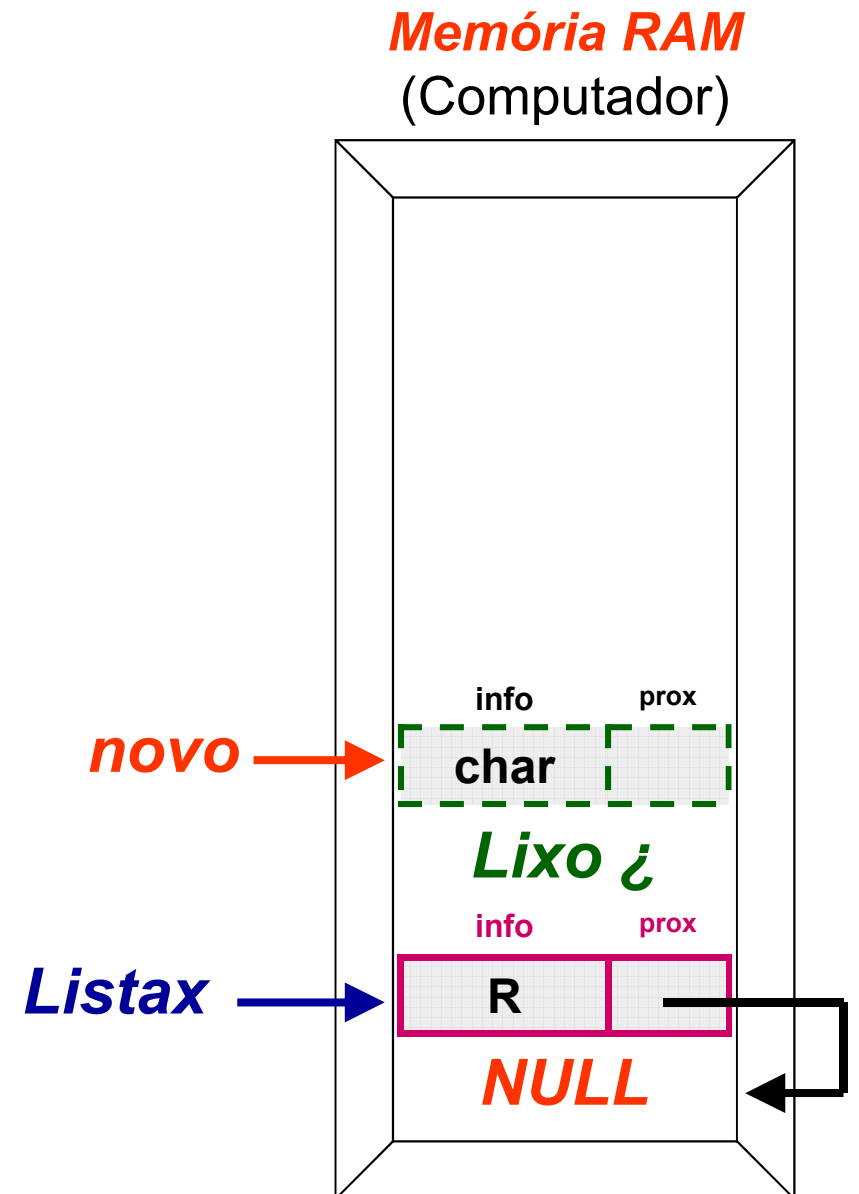


Lista Dinâmica

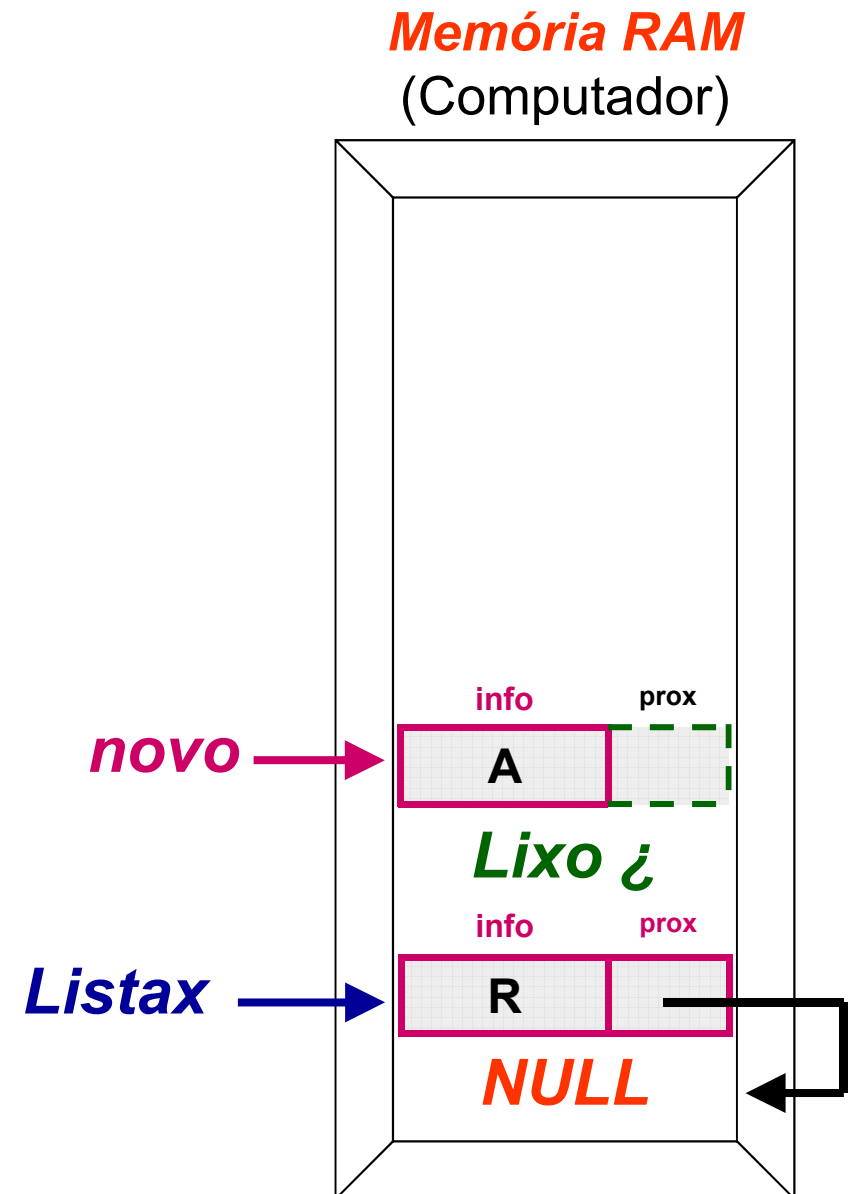
Memória RAM
(Computador)



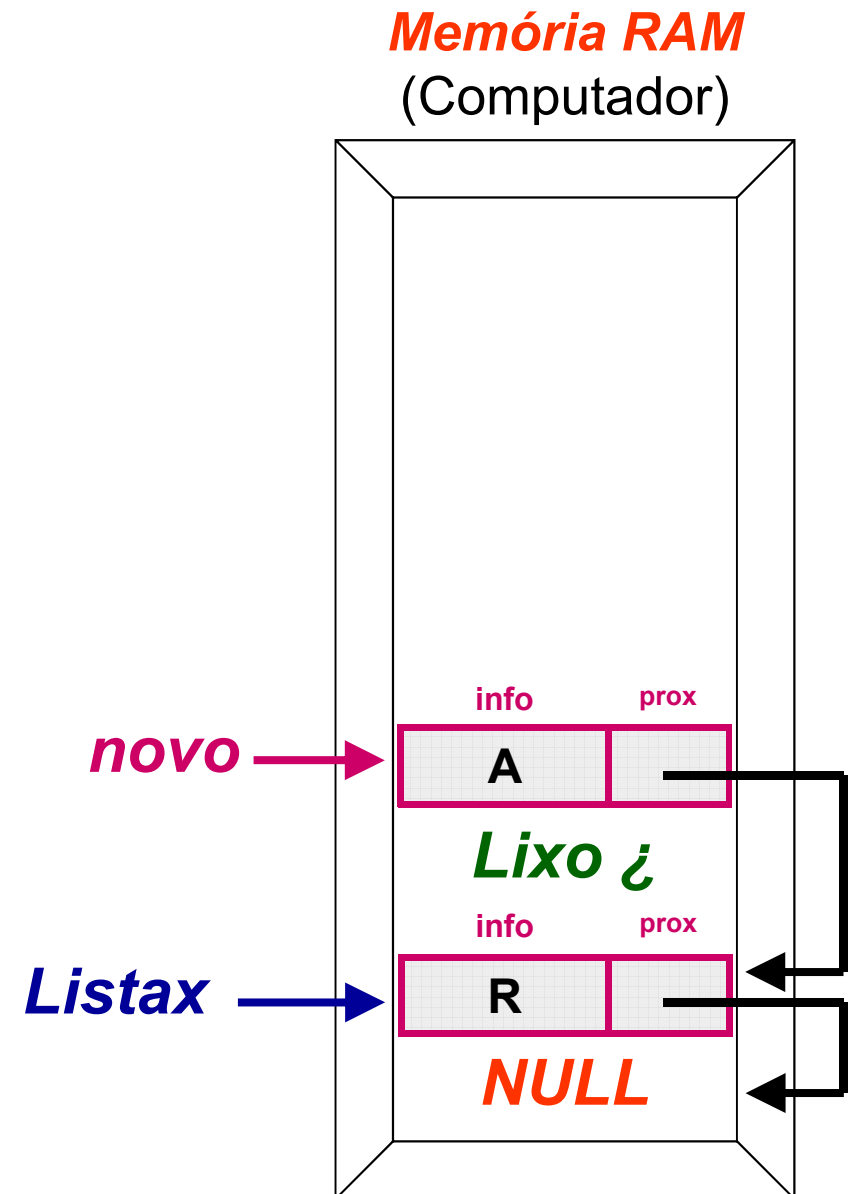
Lista Dinâmica



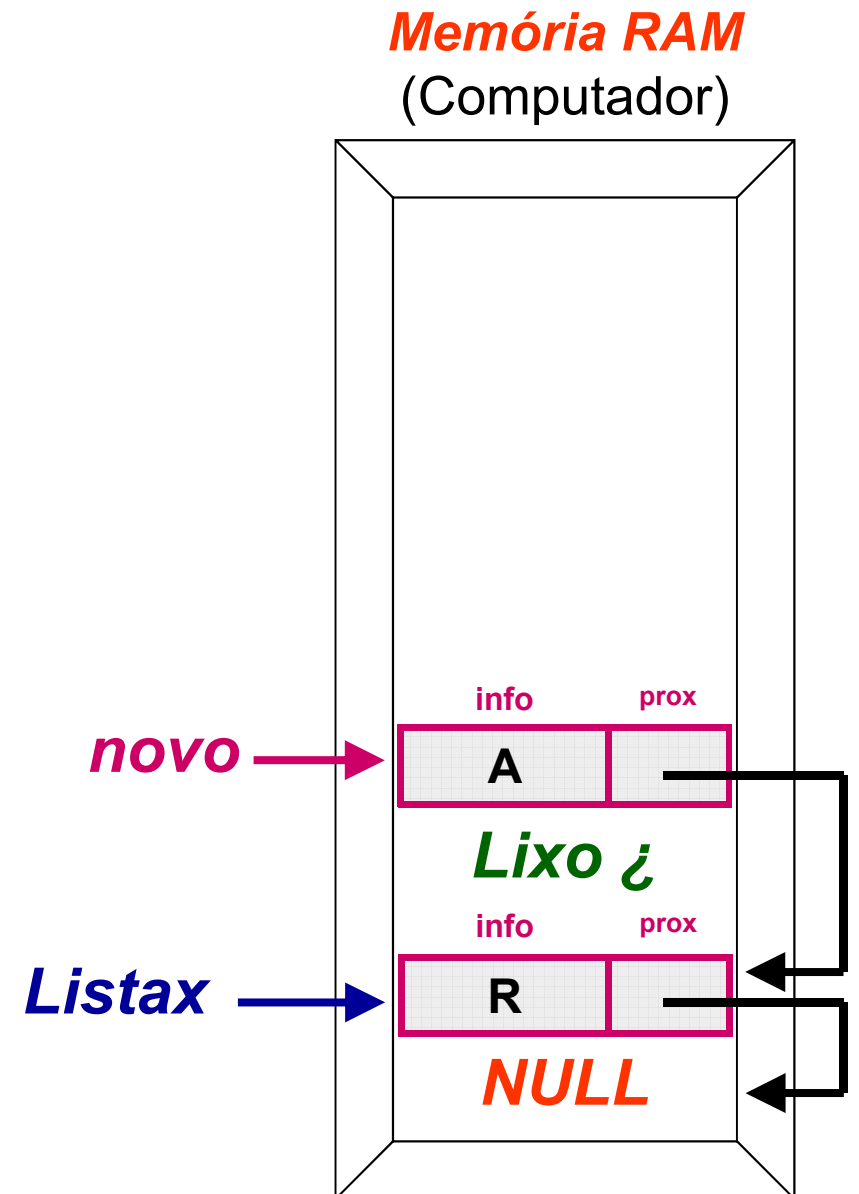
Lista Dinâmica



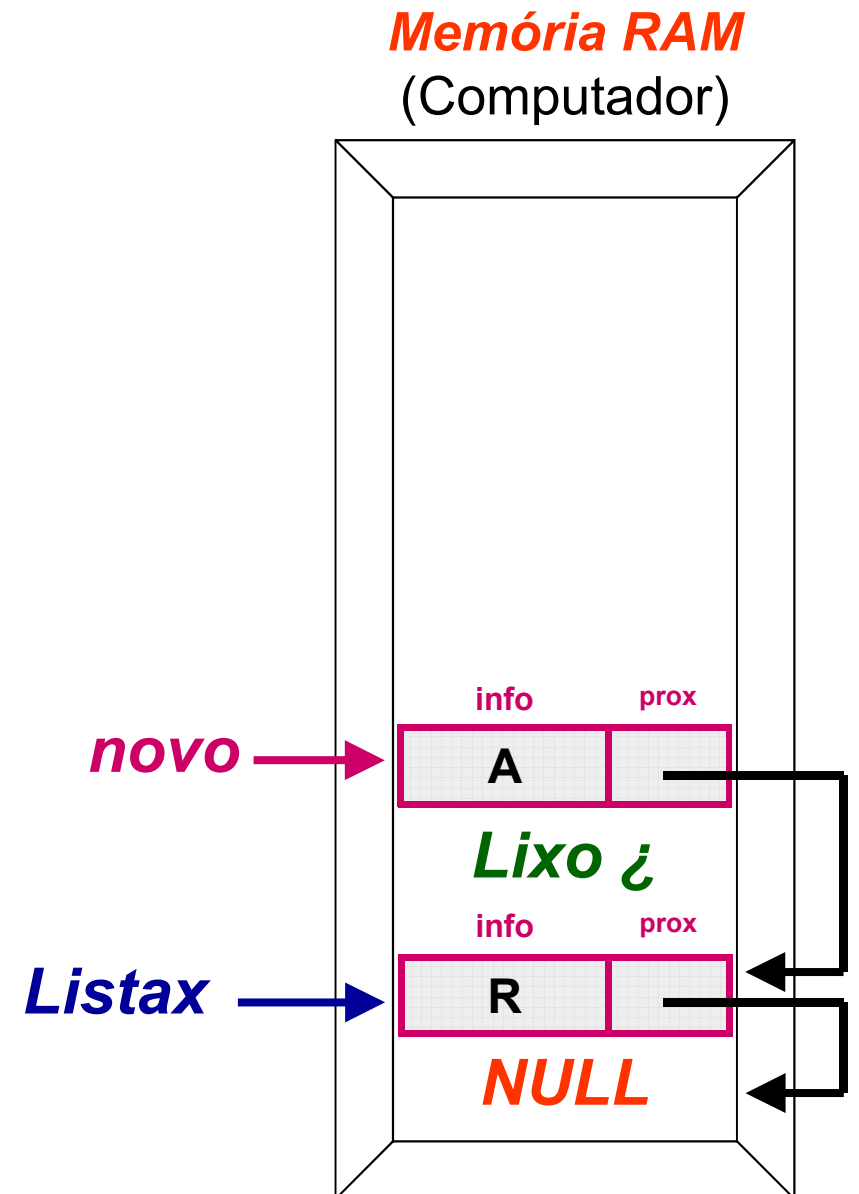
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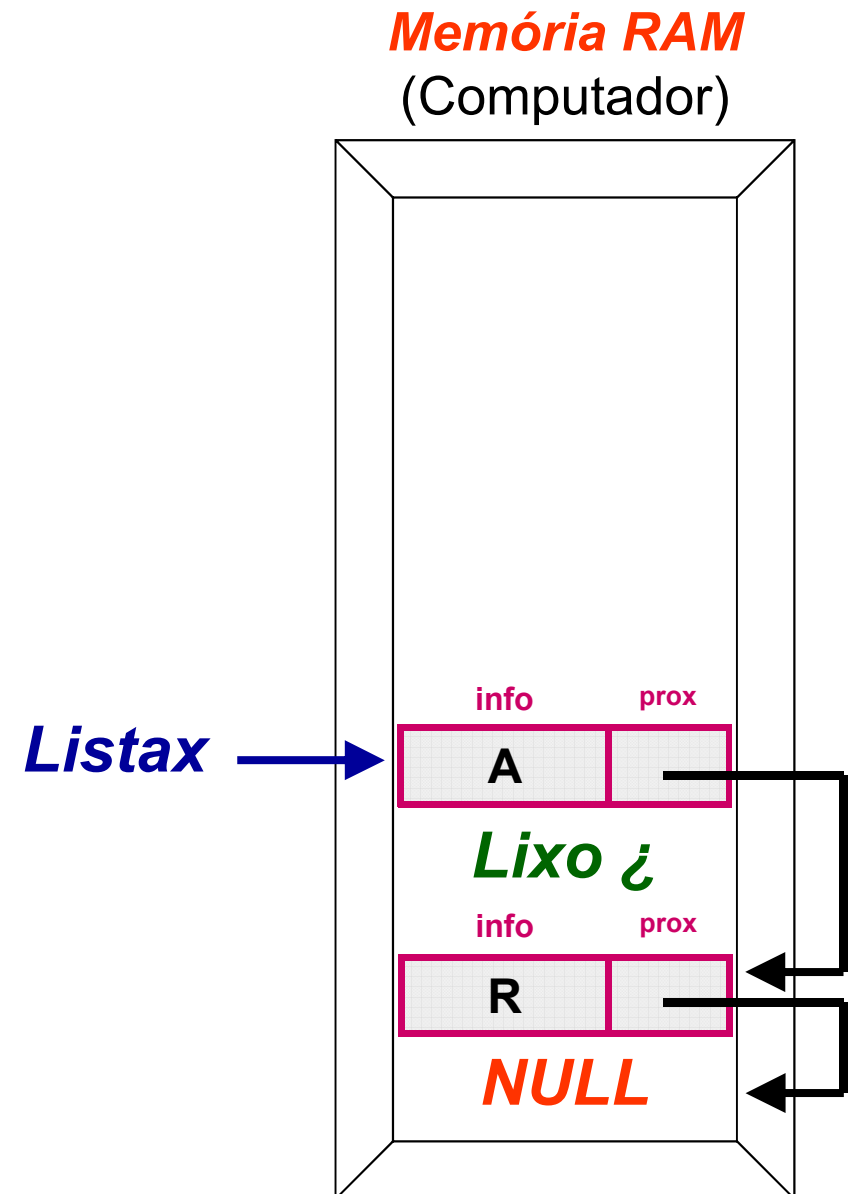
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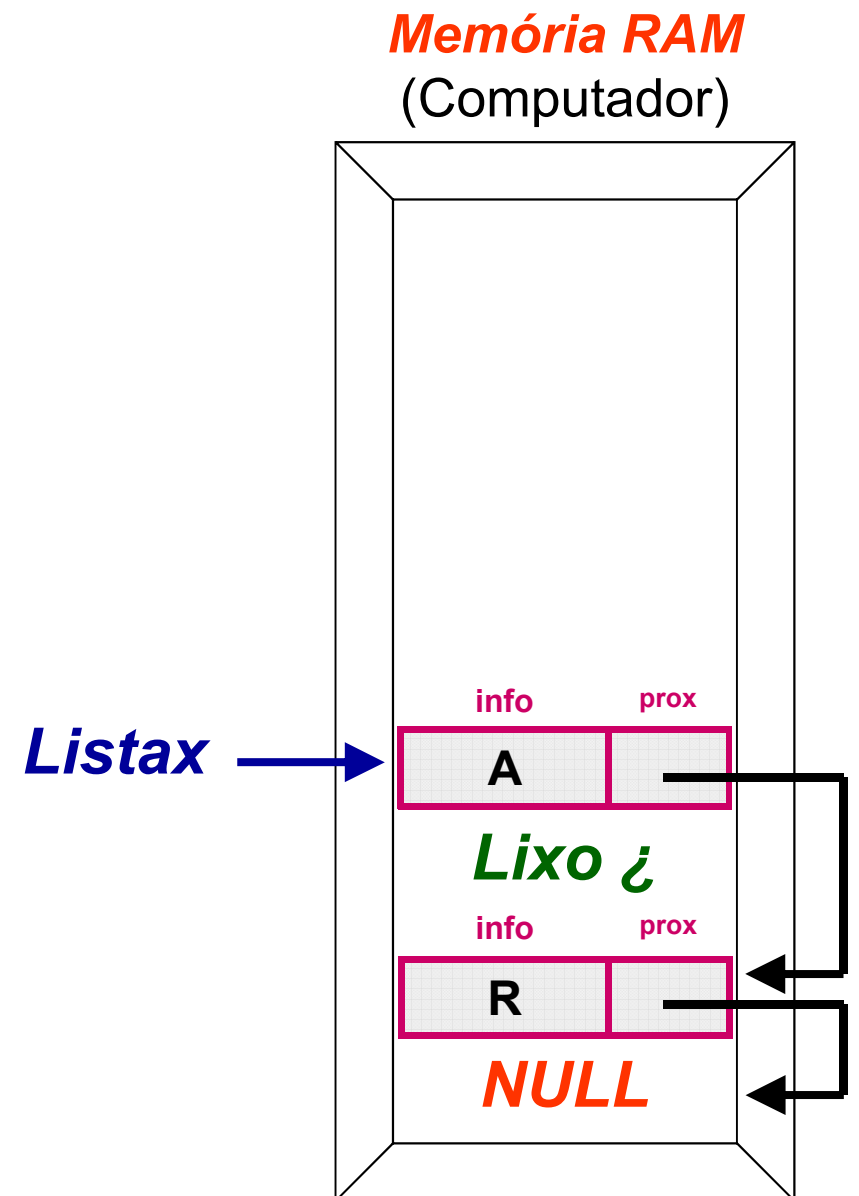
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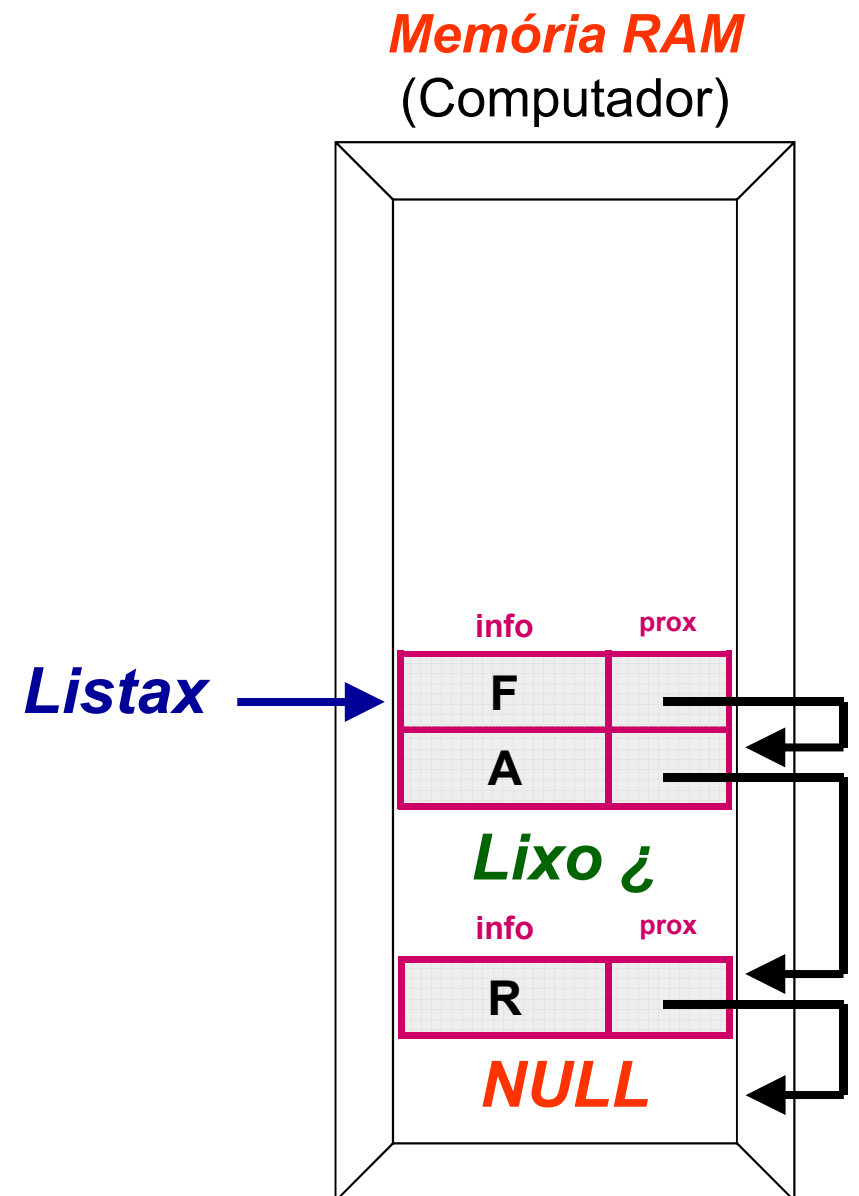
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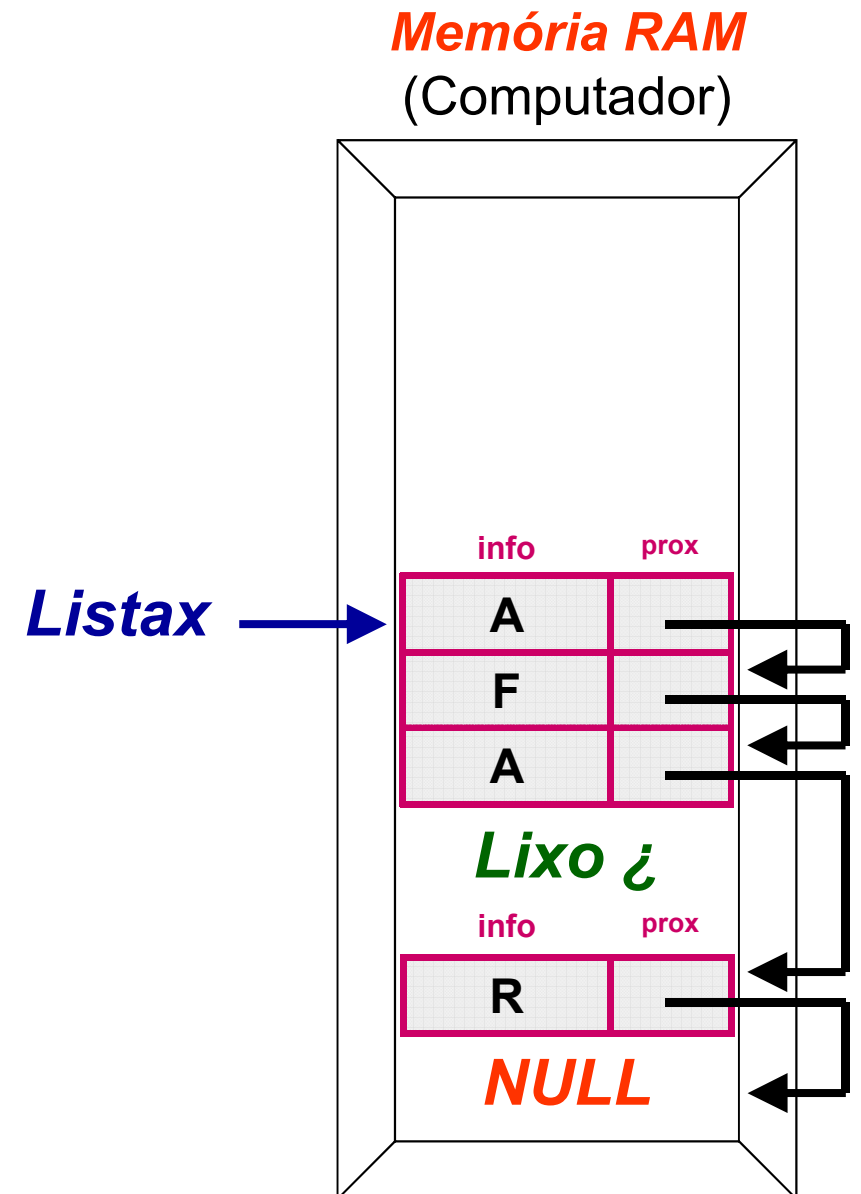
Lista Dinâmica



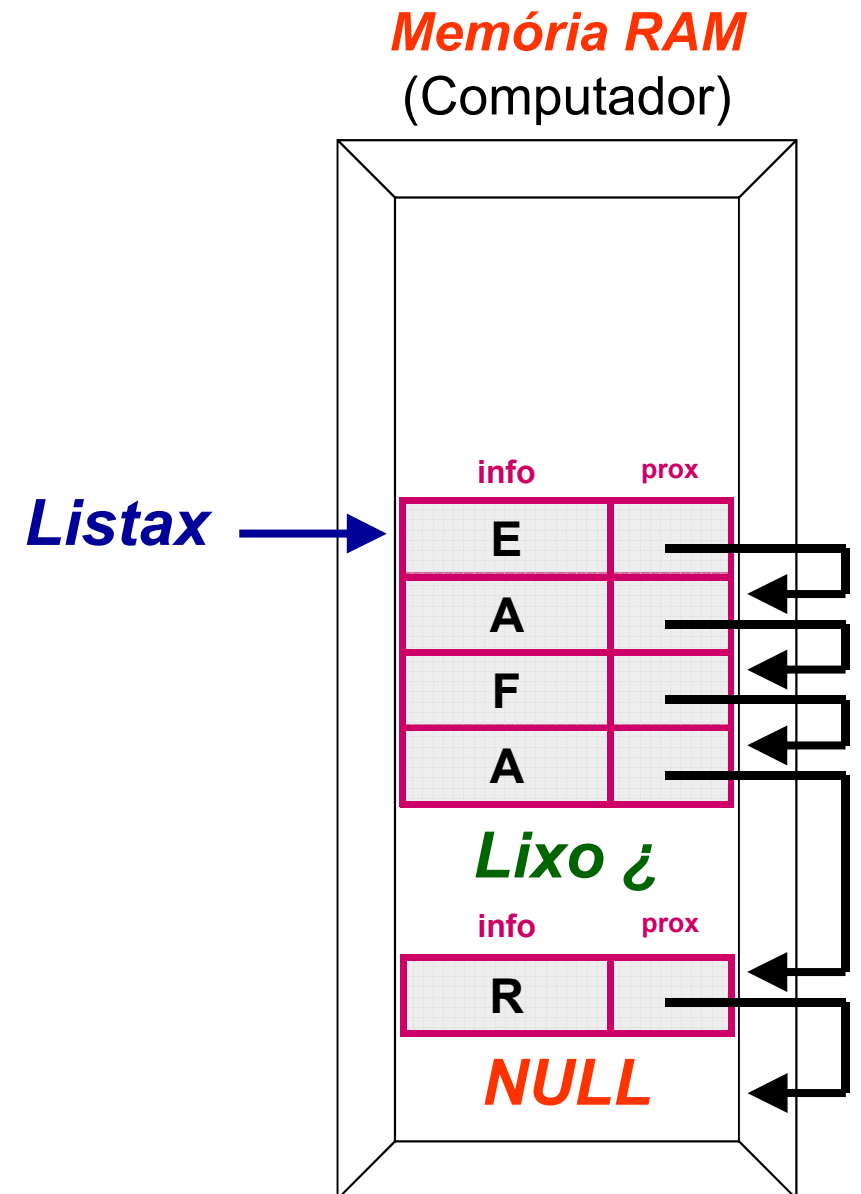
Lista Dinâmica



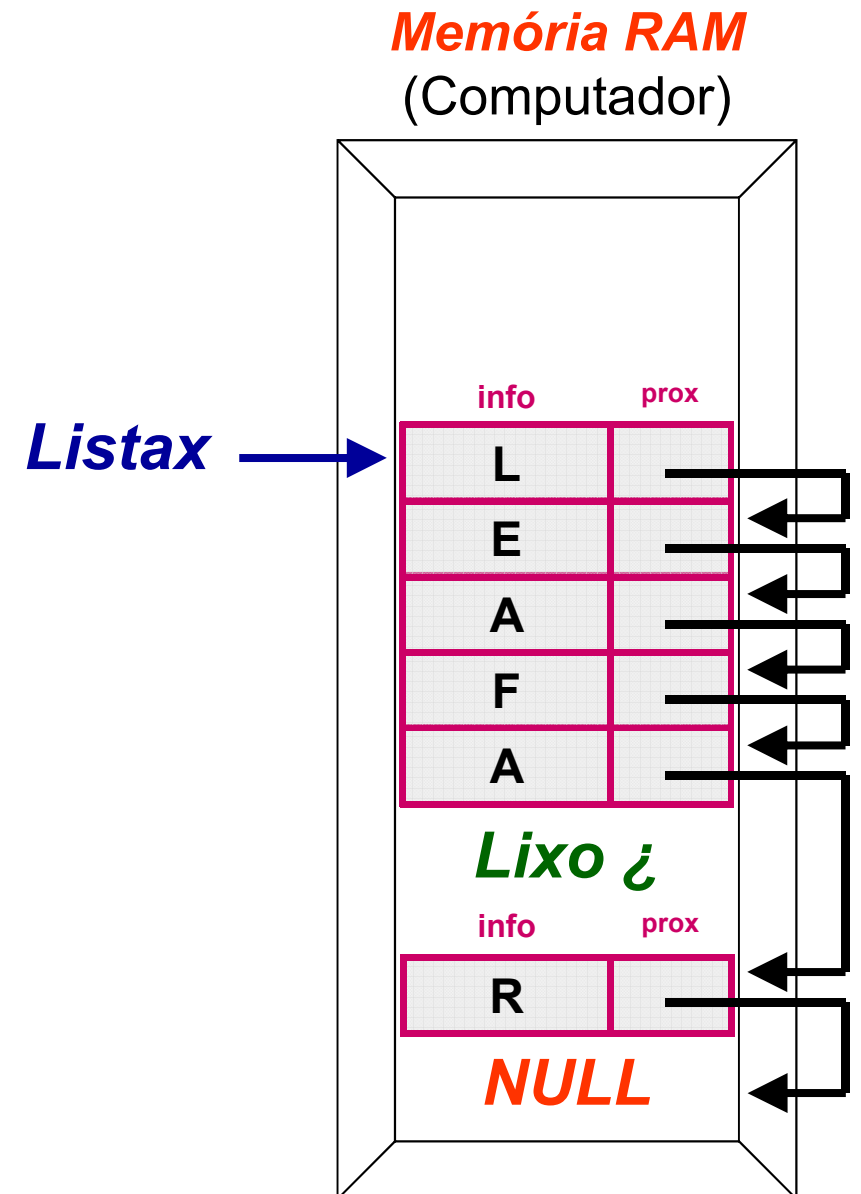
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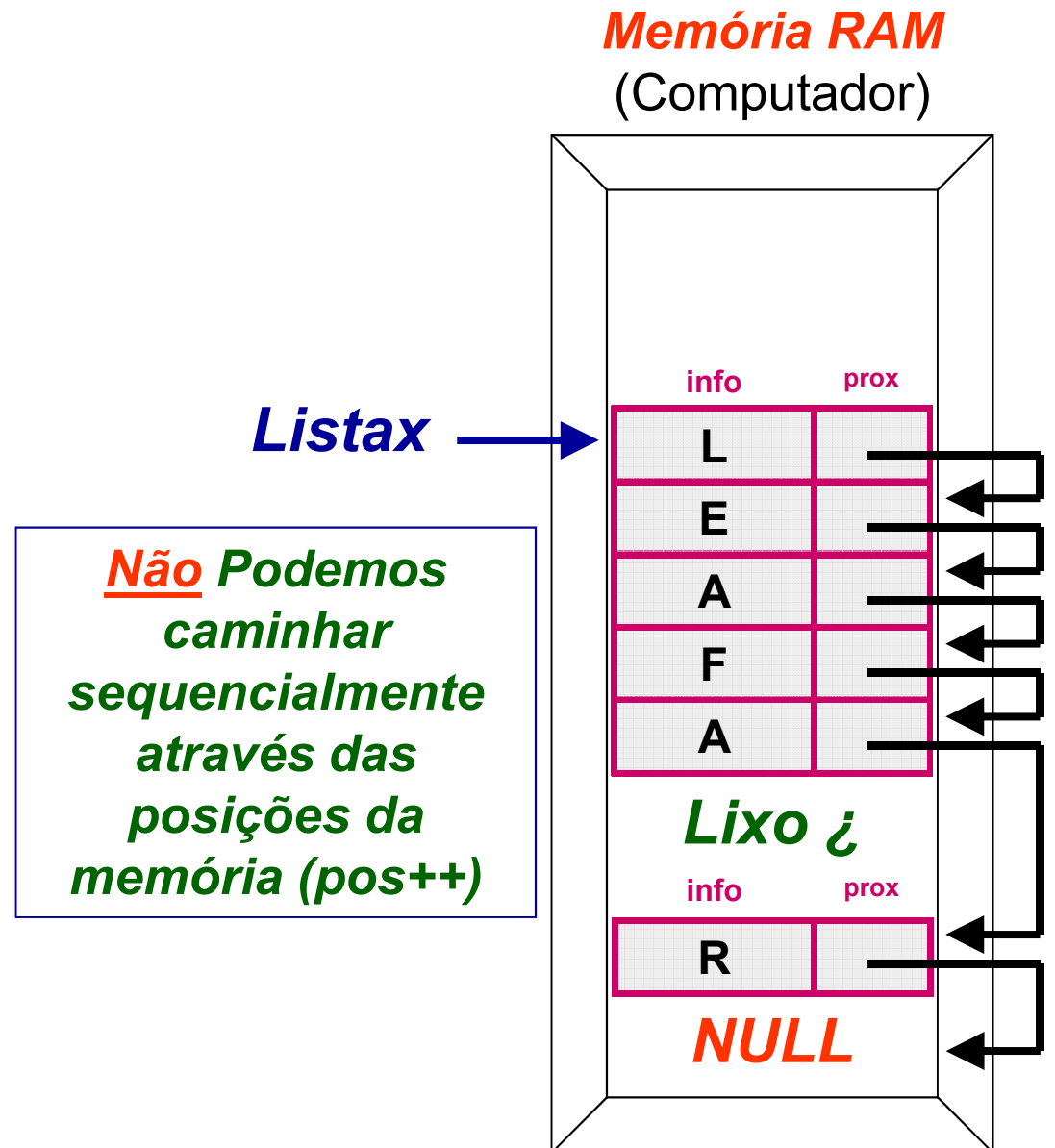
Lista Dinâmica



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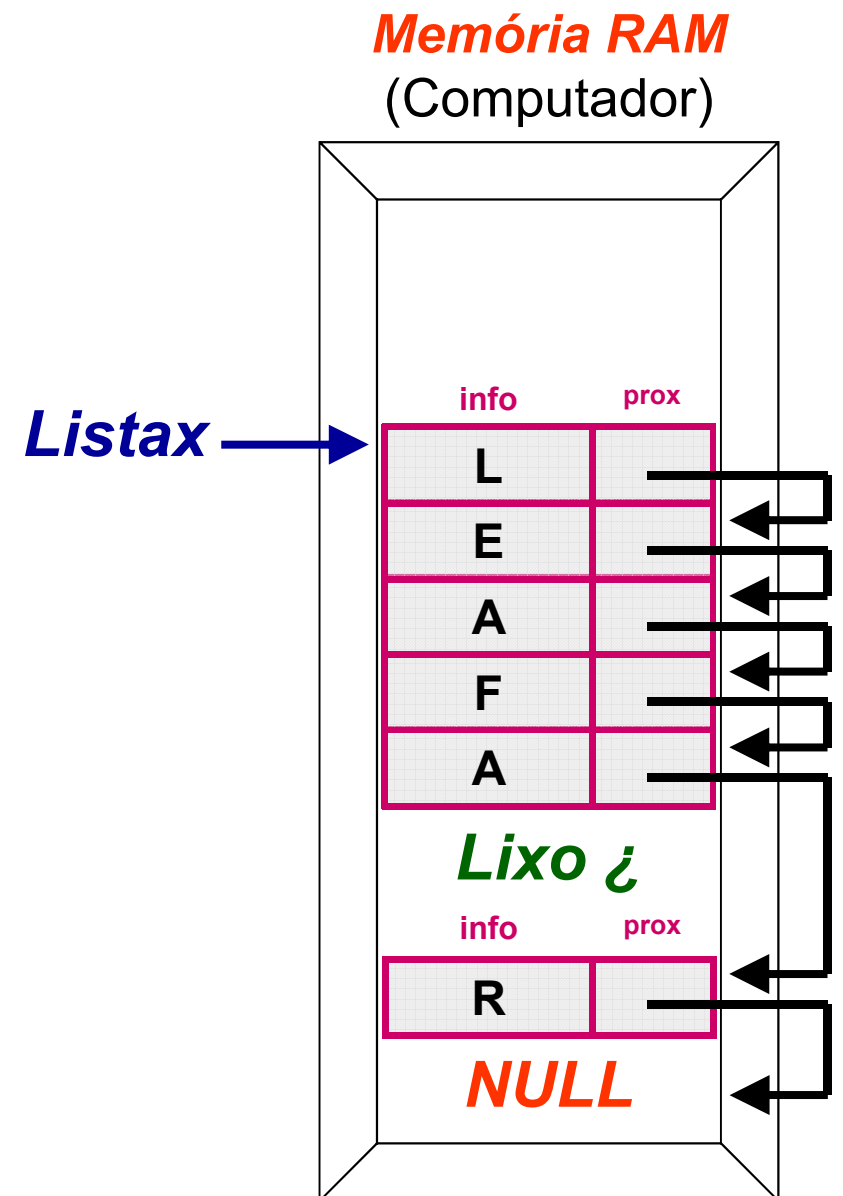
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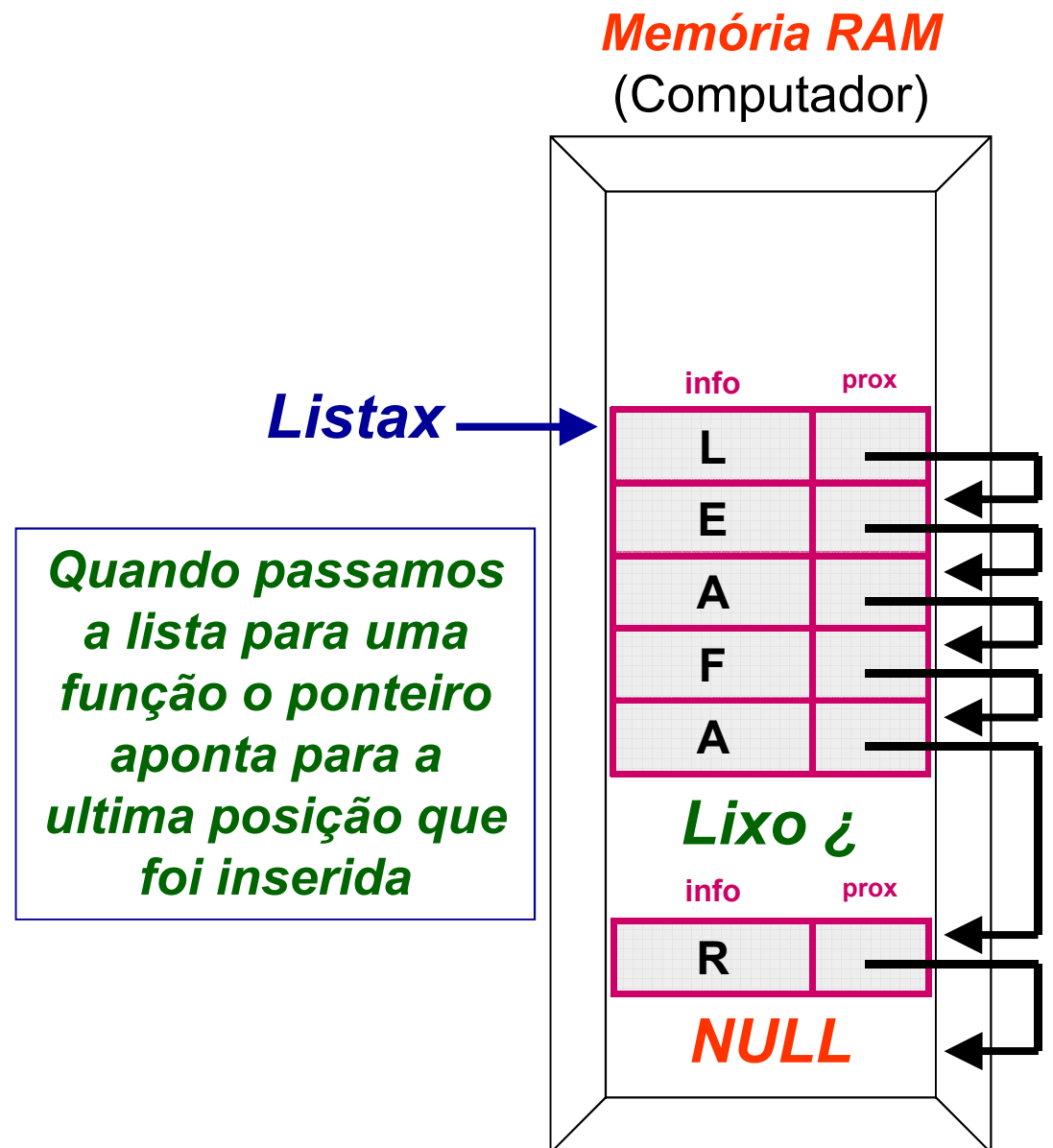
Percorrendo a Lista Dinâmica

Função Imprime

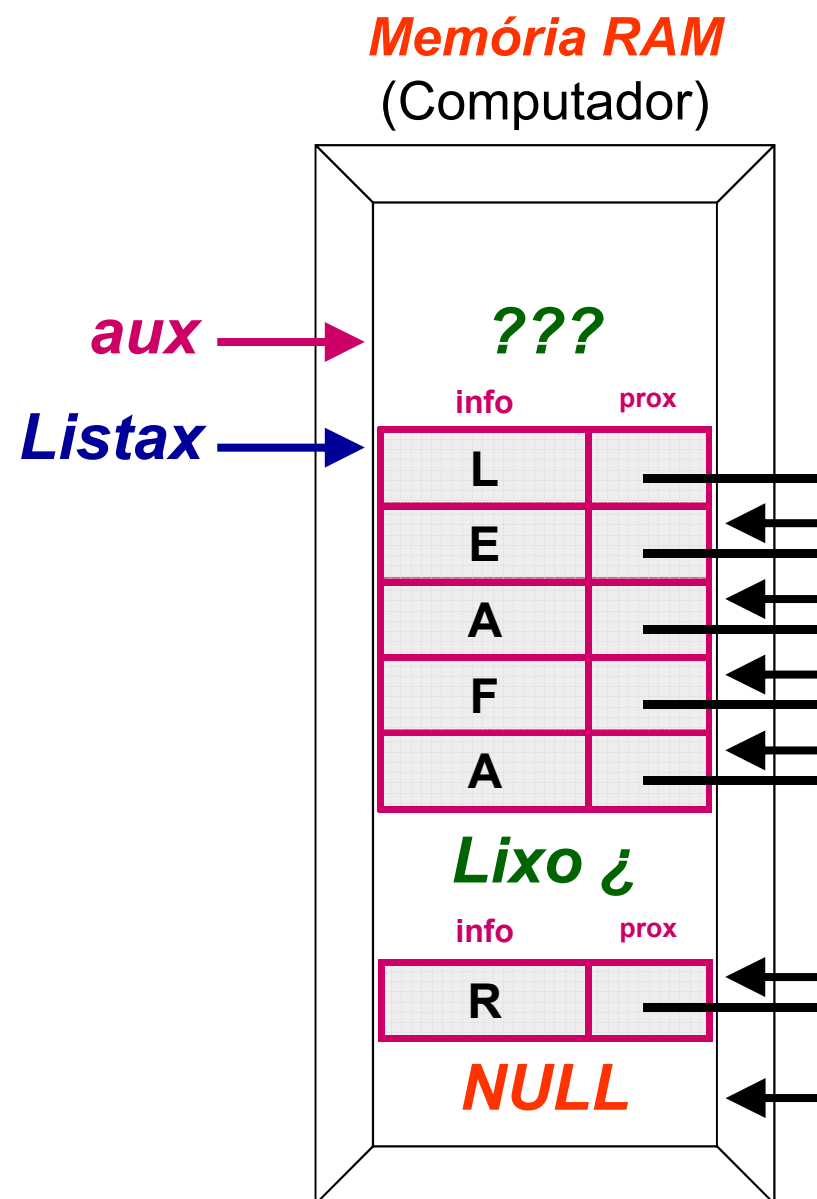
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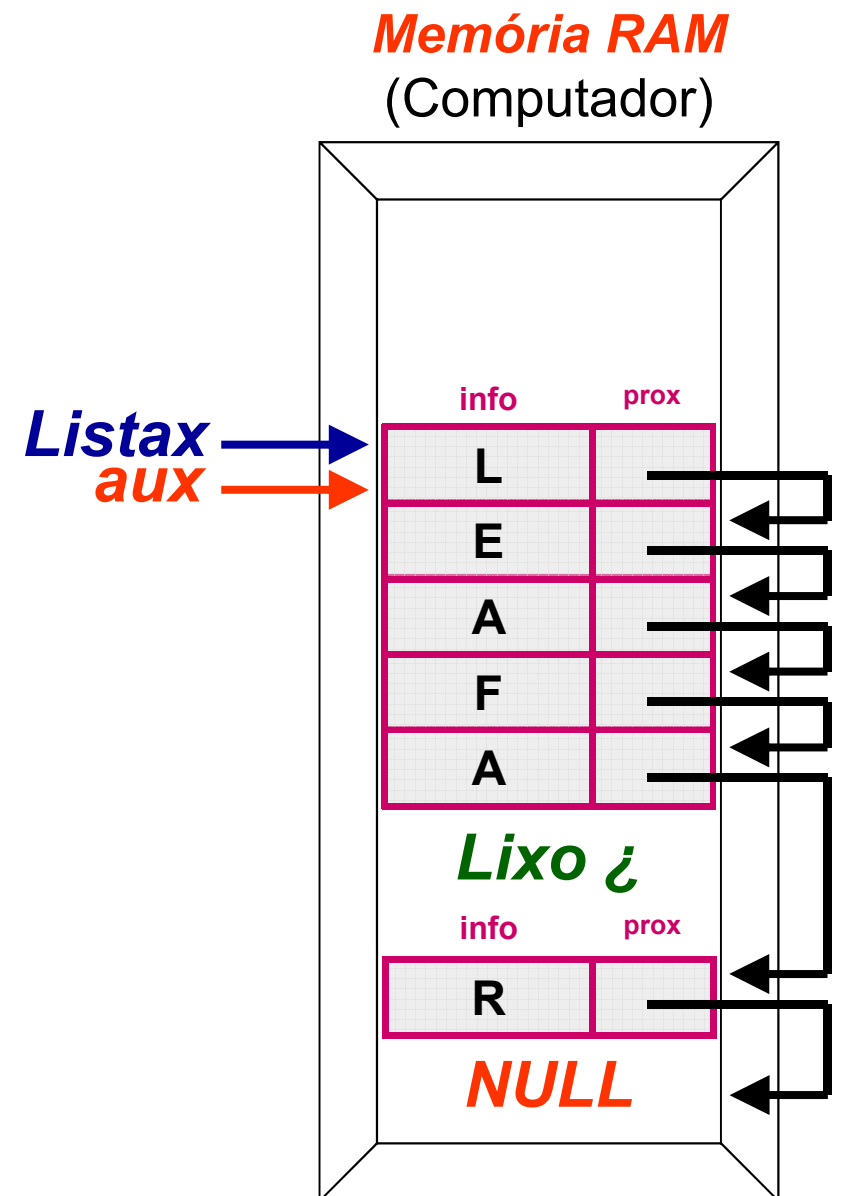
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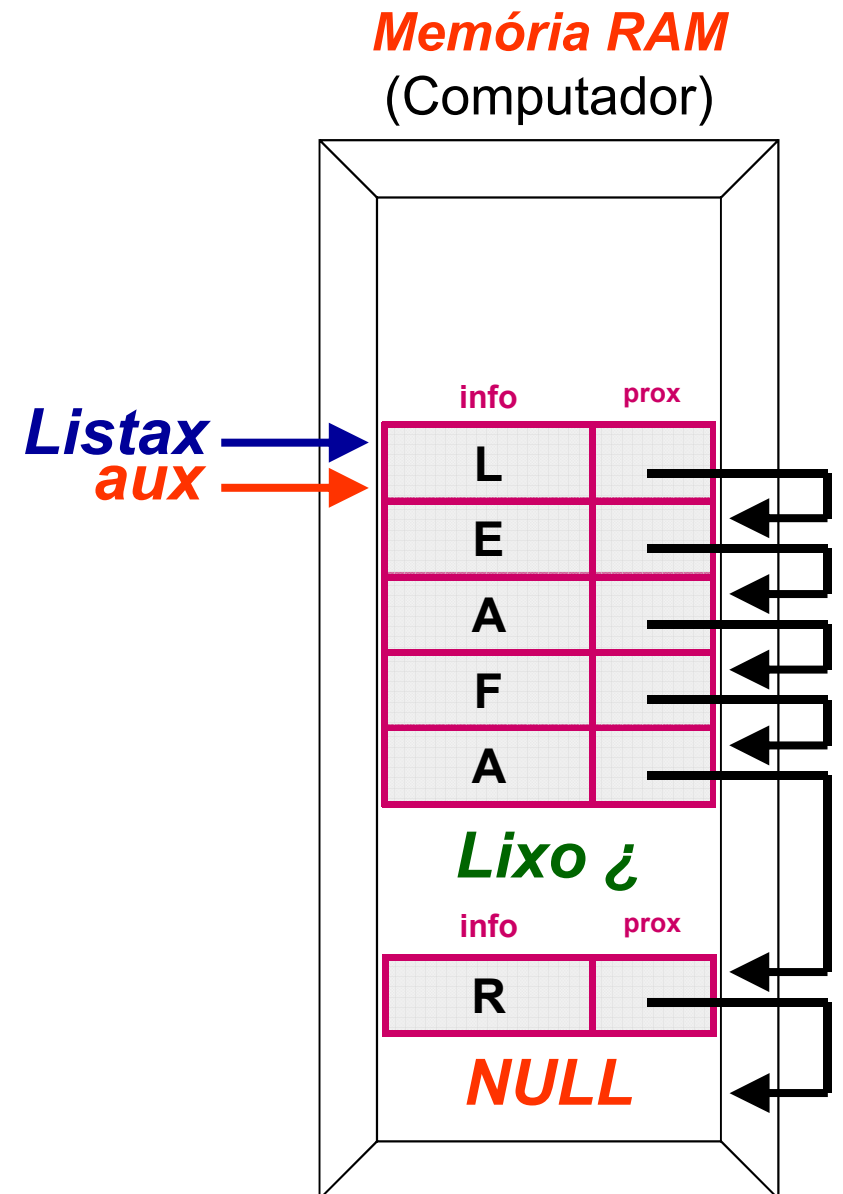
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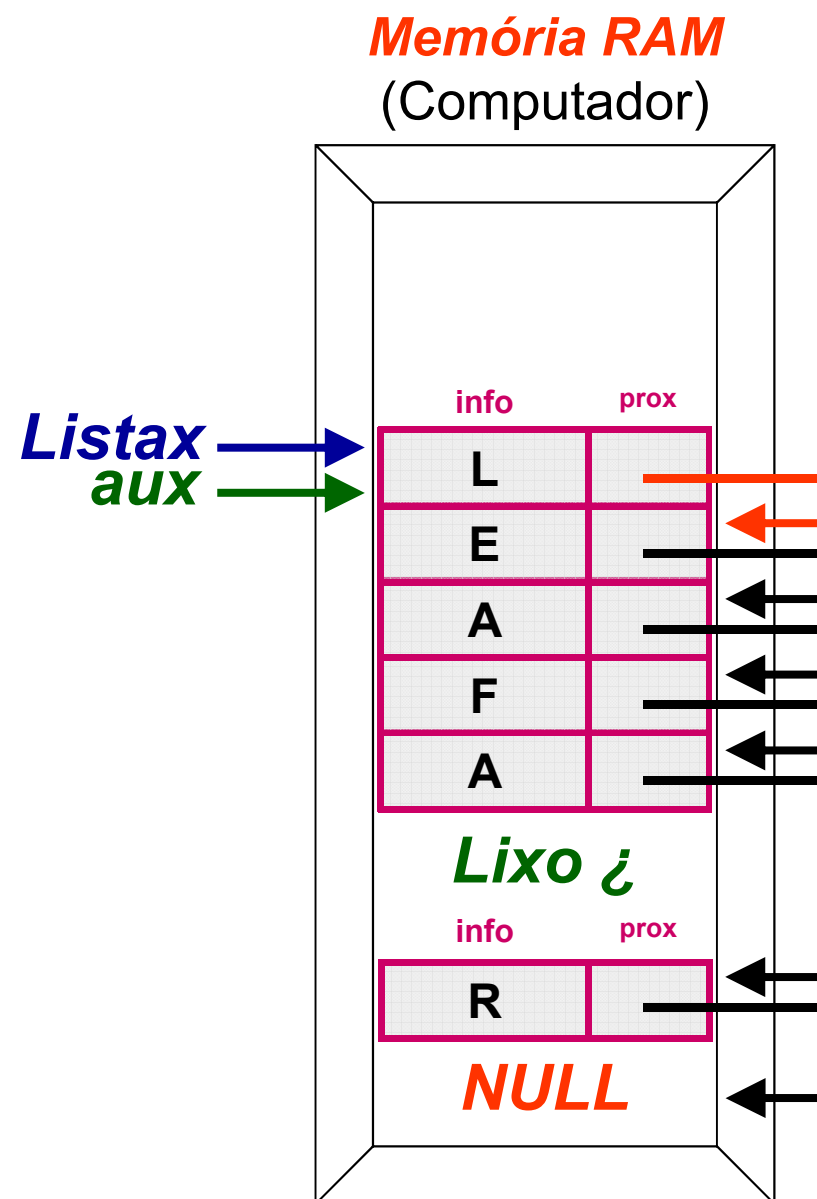
Lista Dinâmica



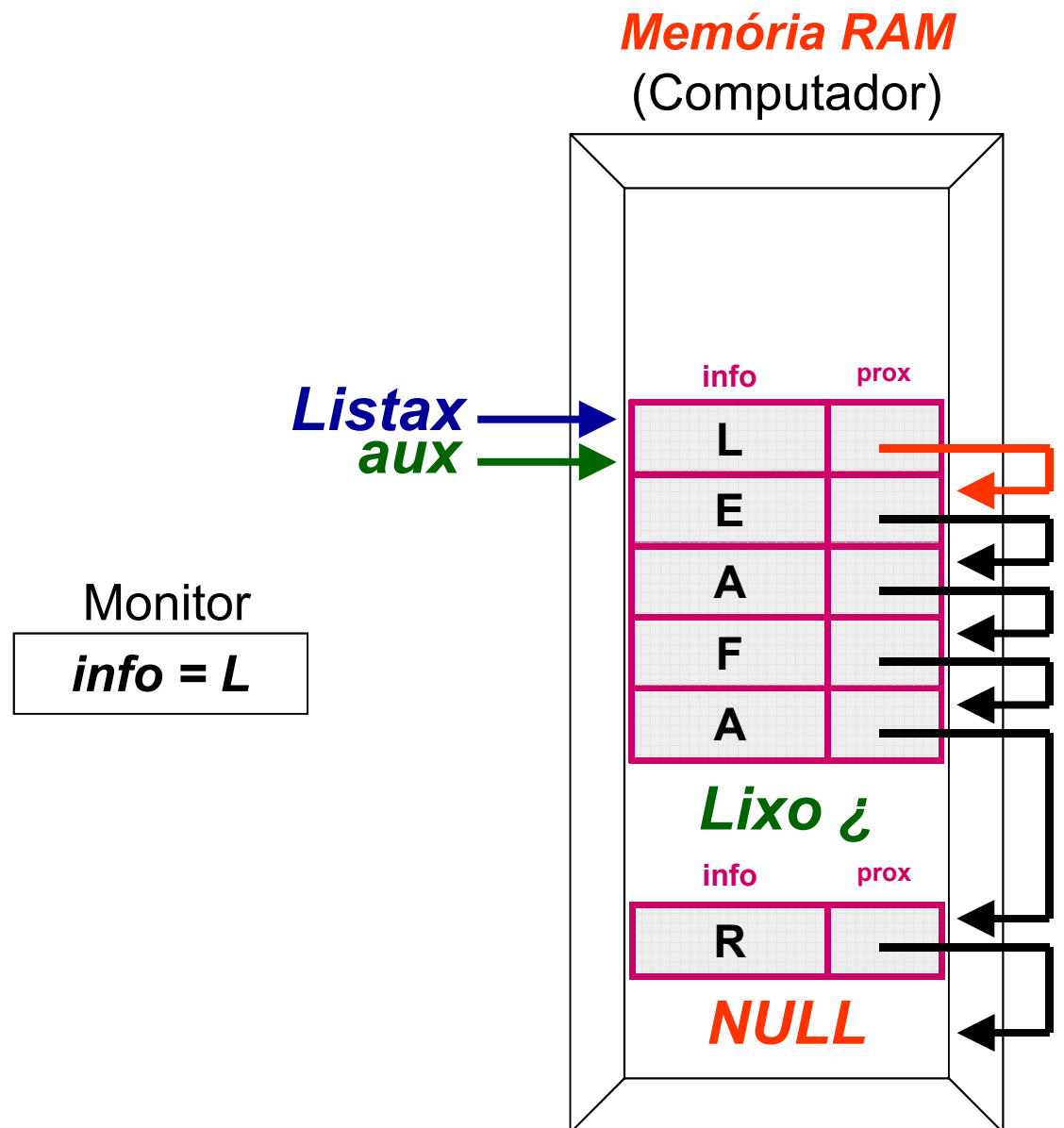
Lista Dinâmica



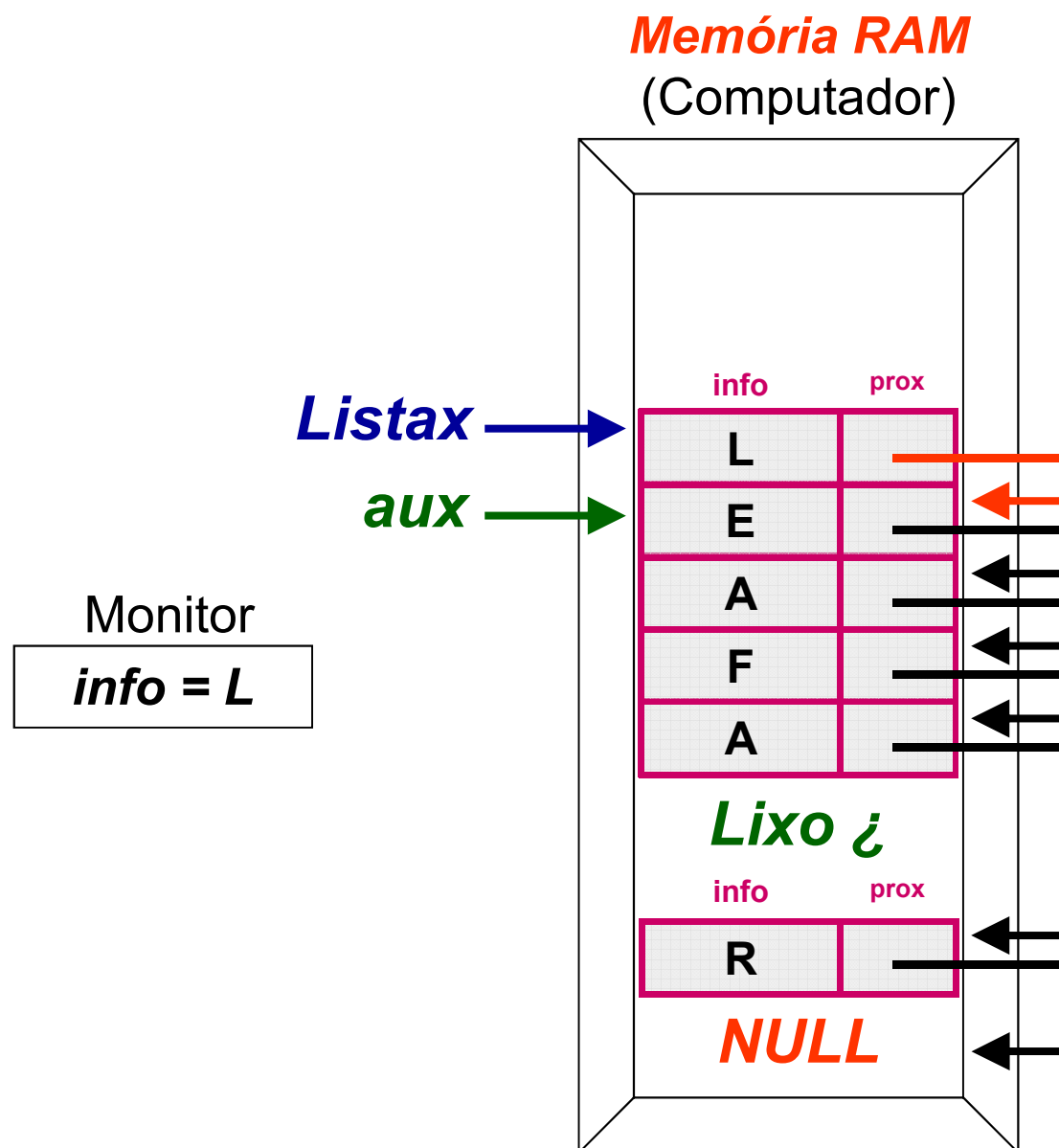
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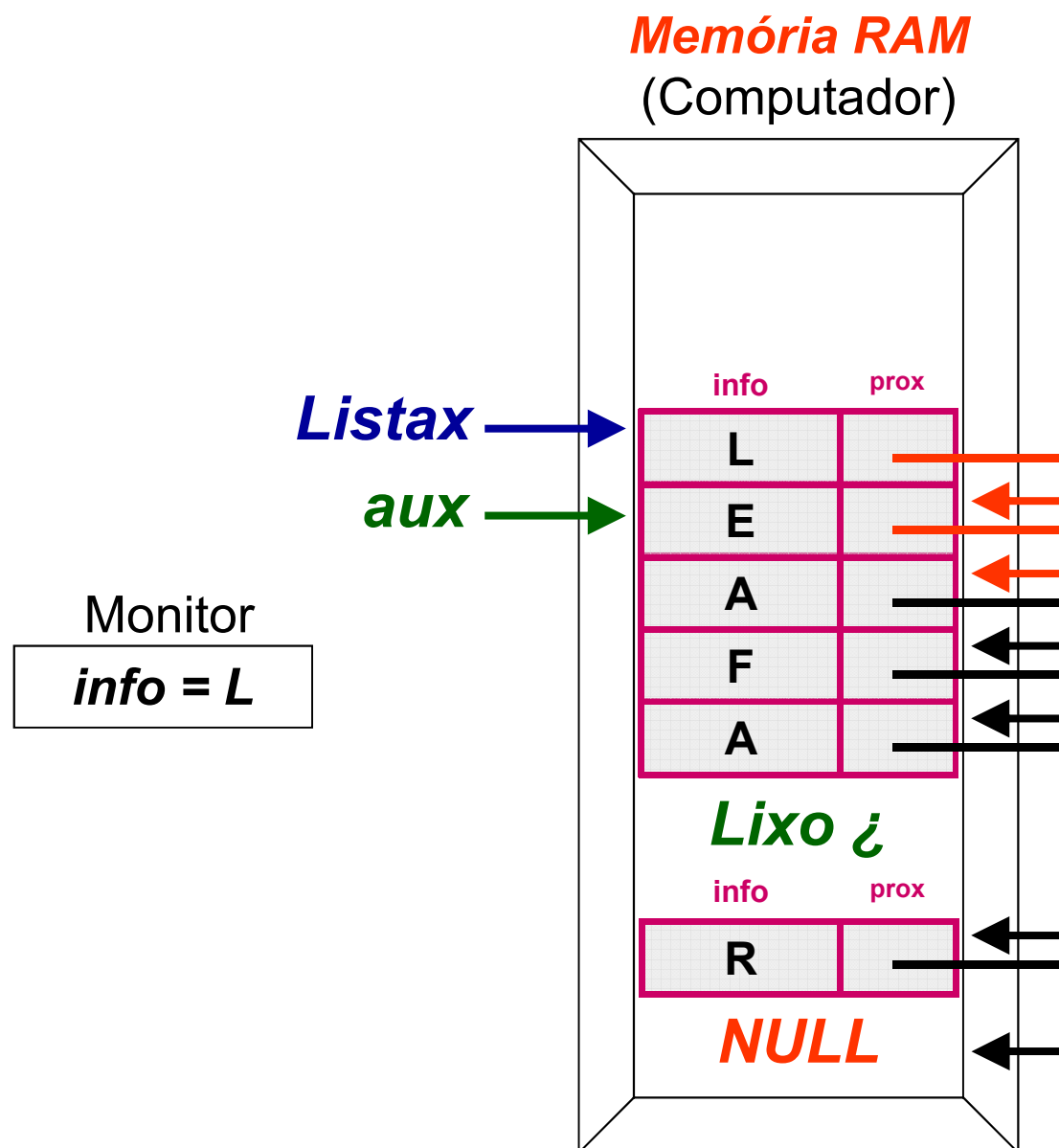
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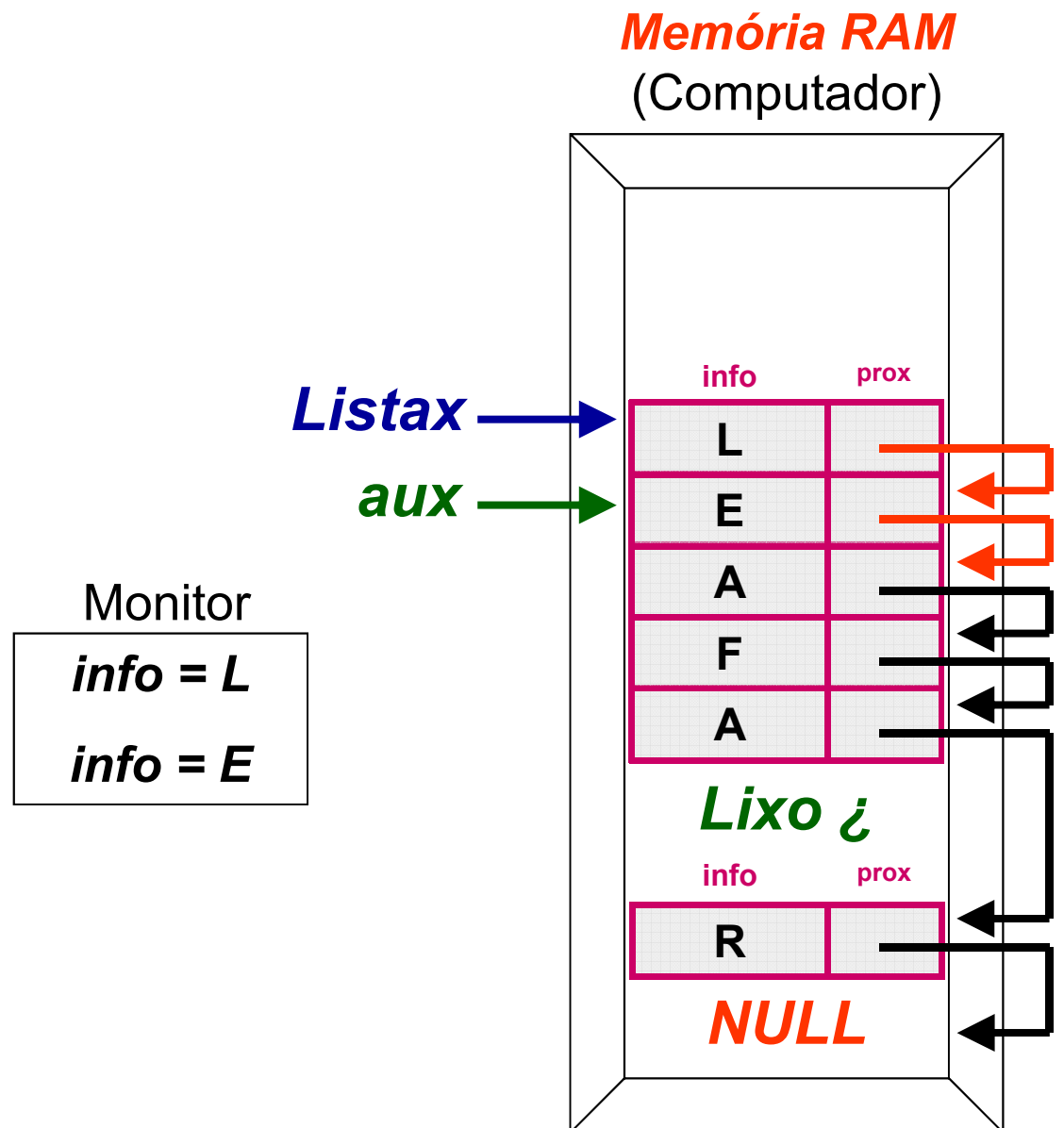
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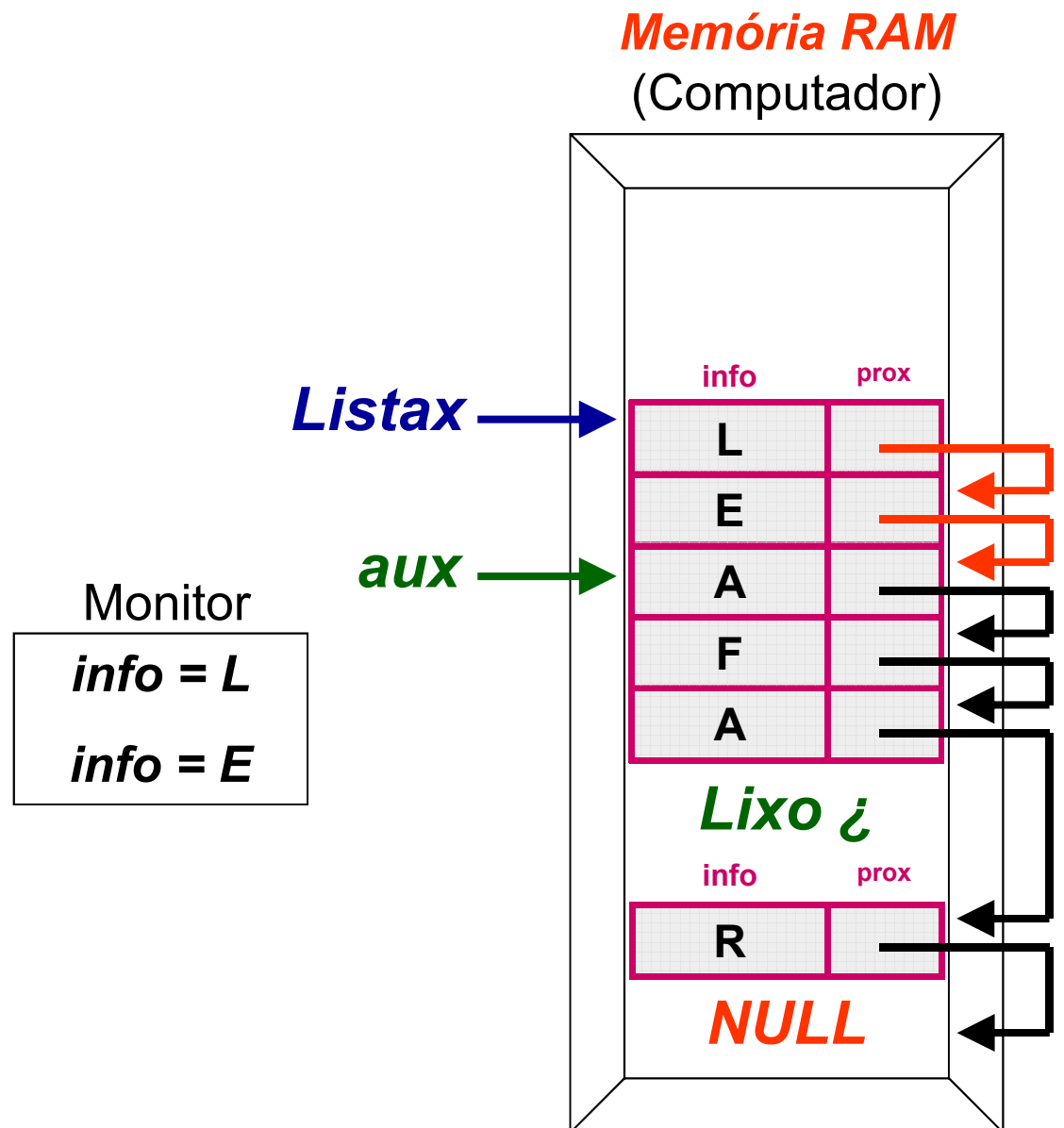
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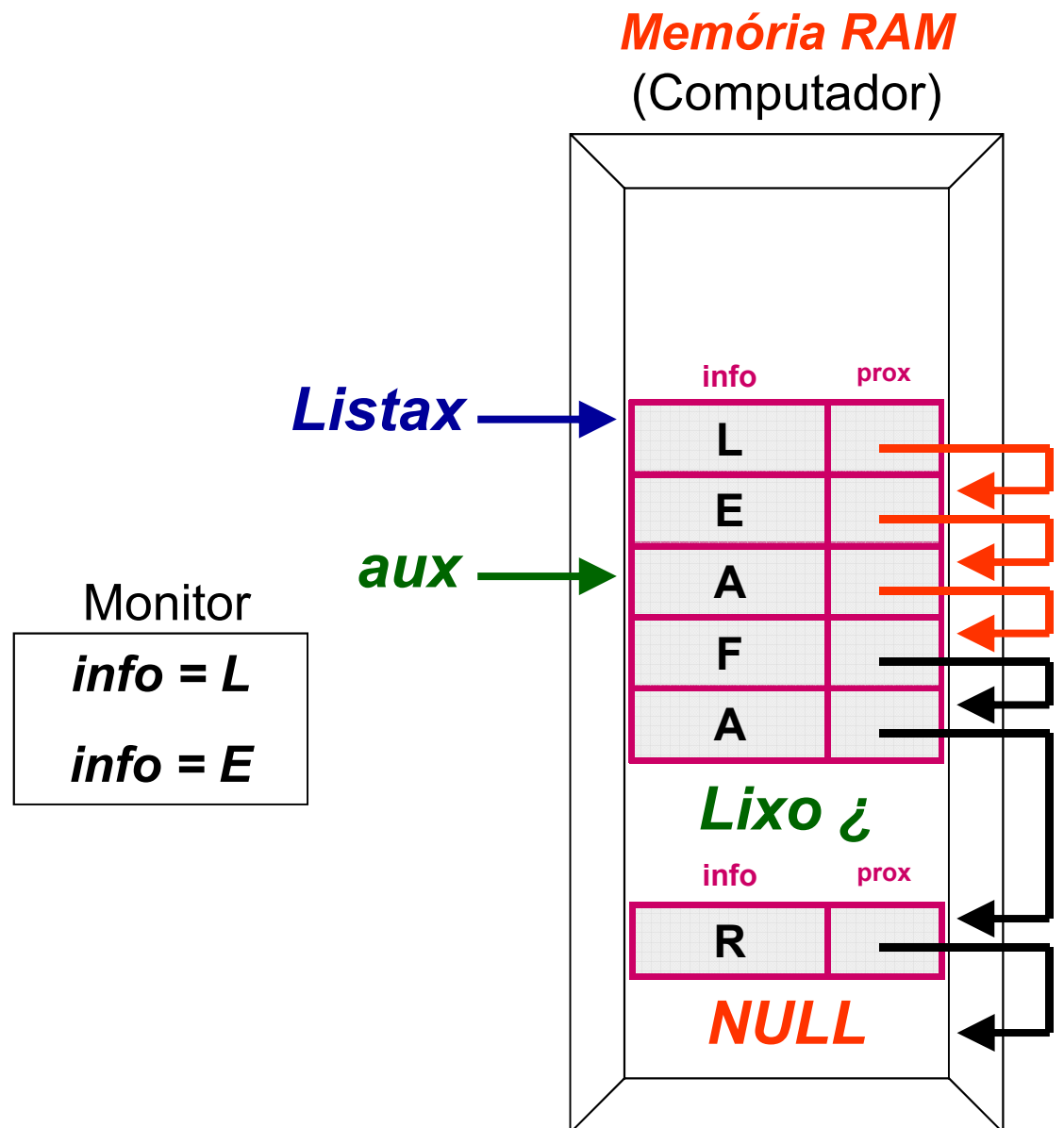
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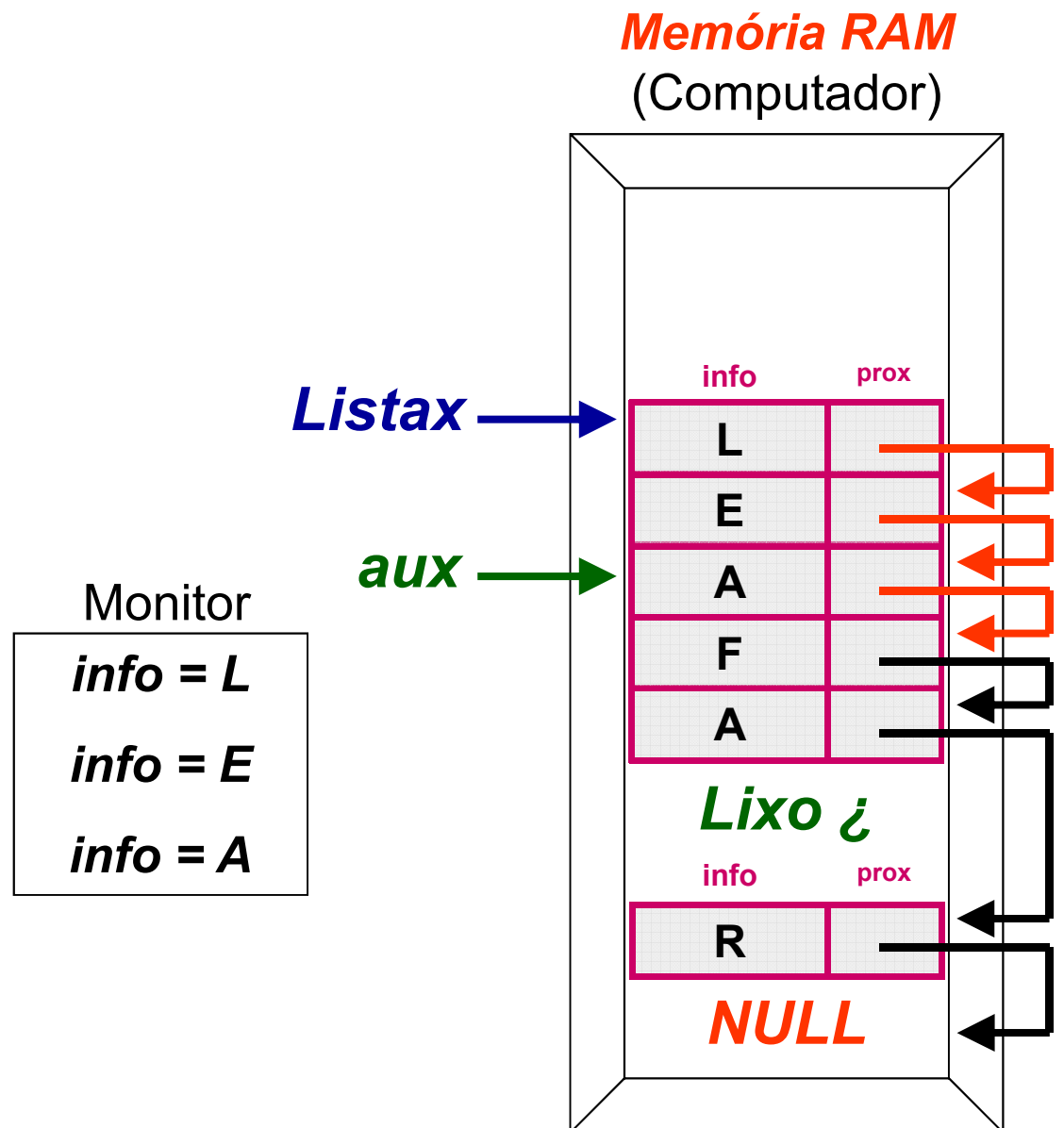
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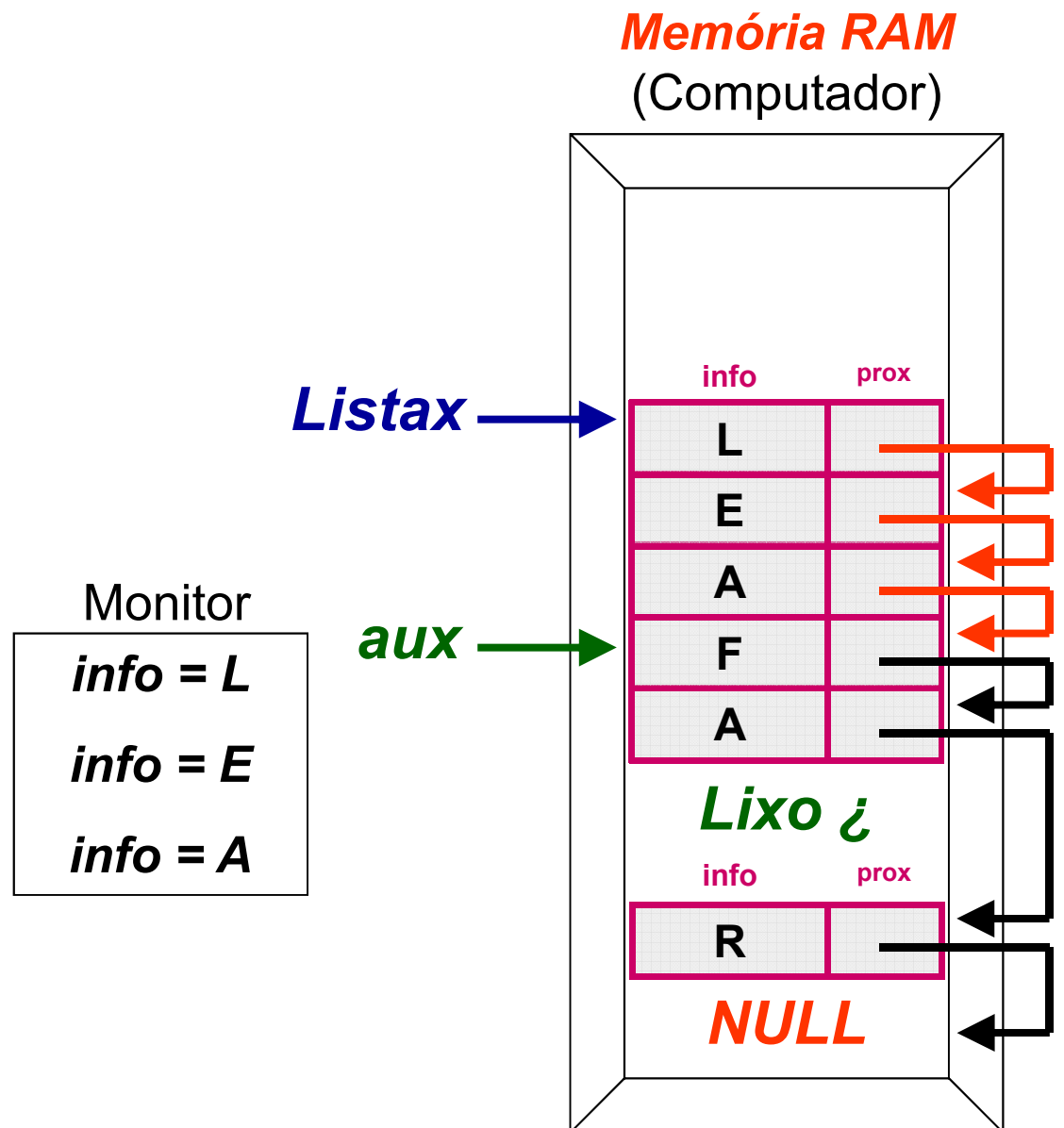
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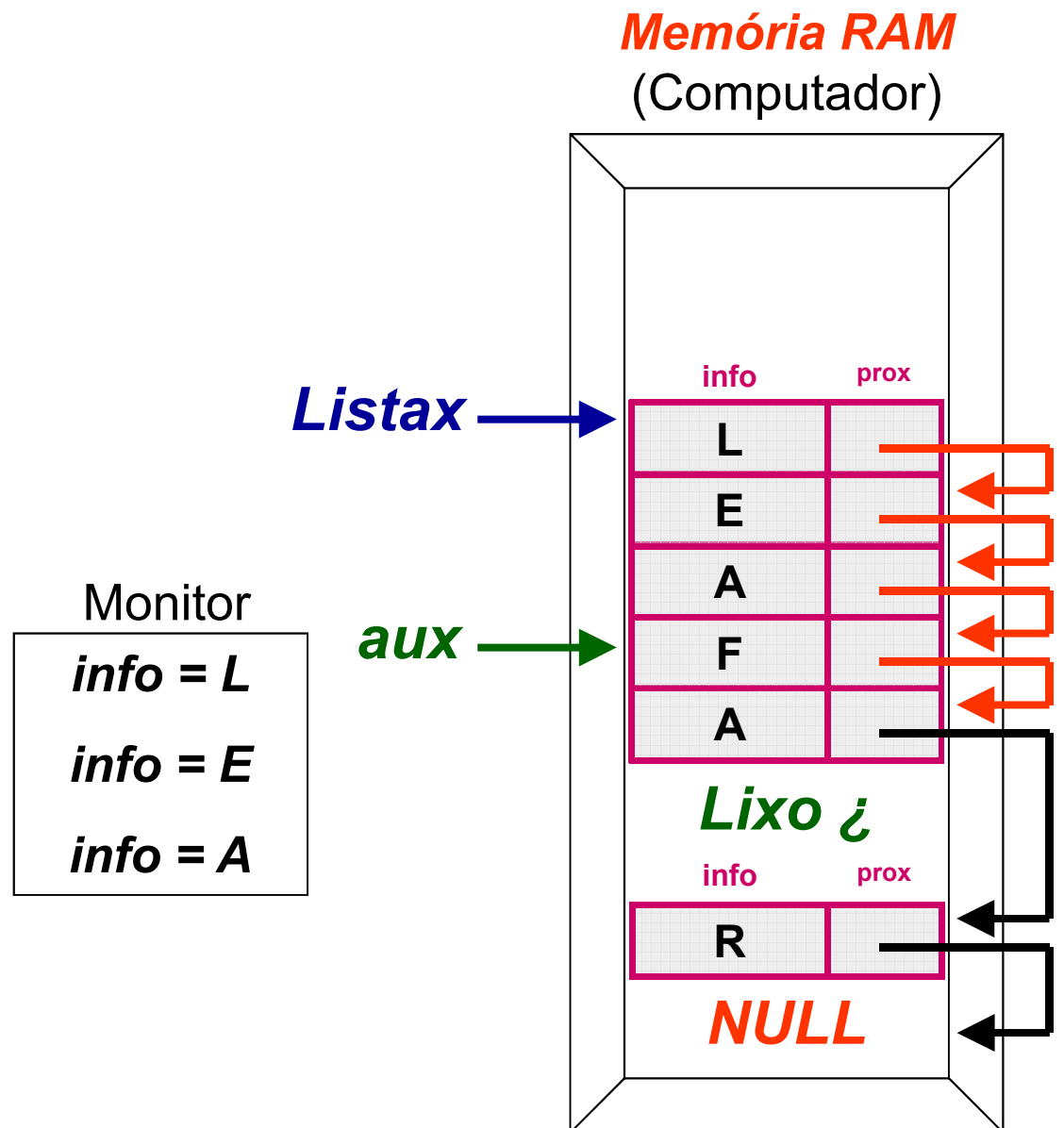
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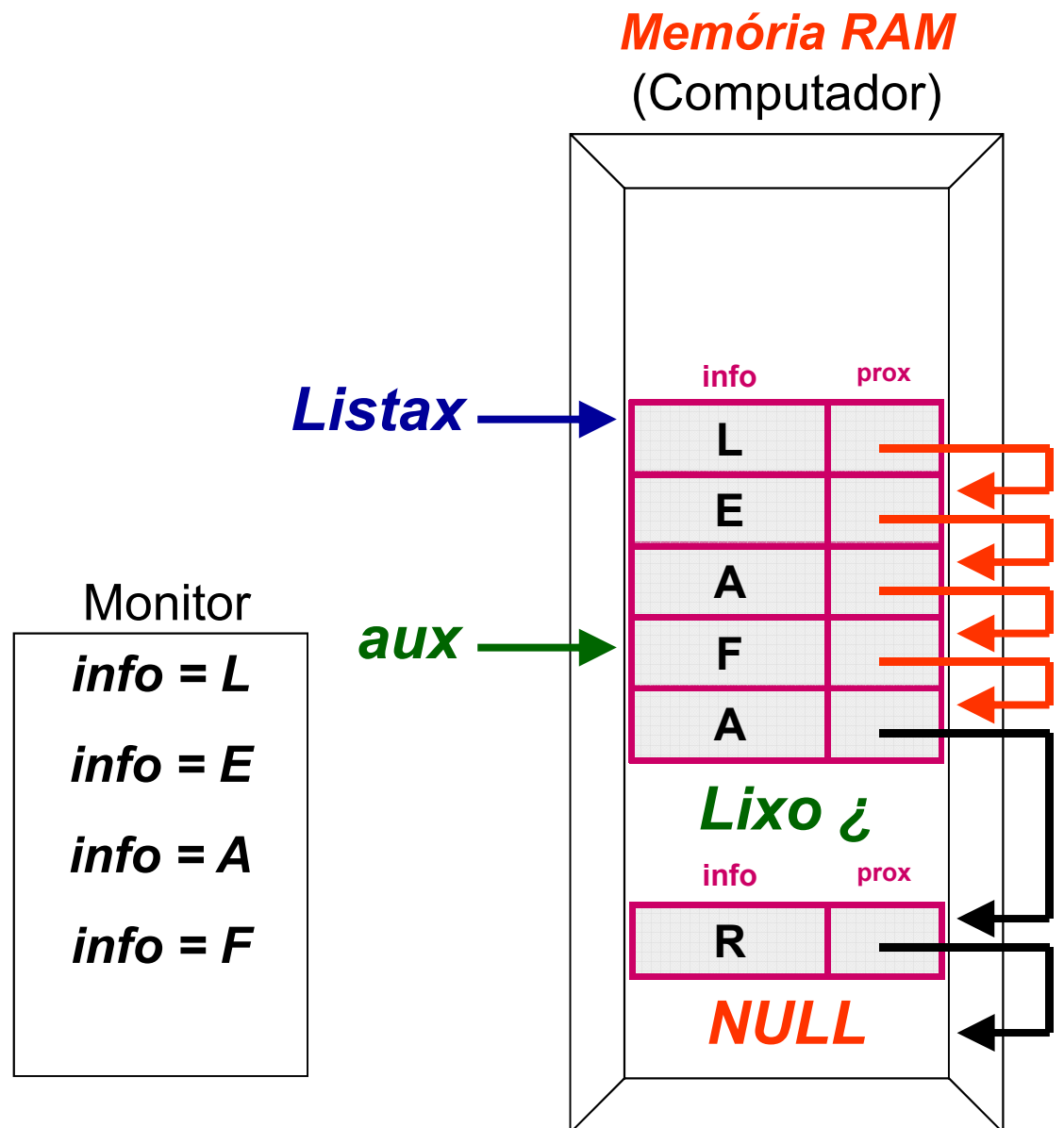
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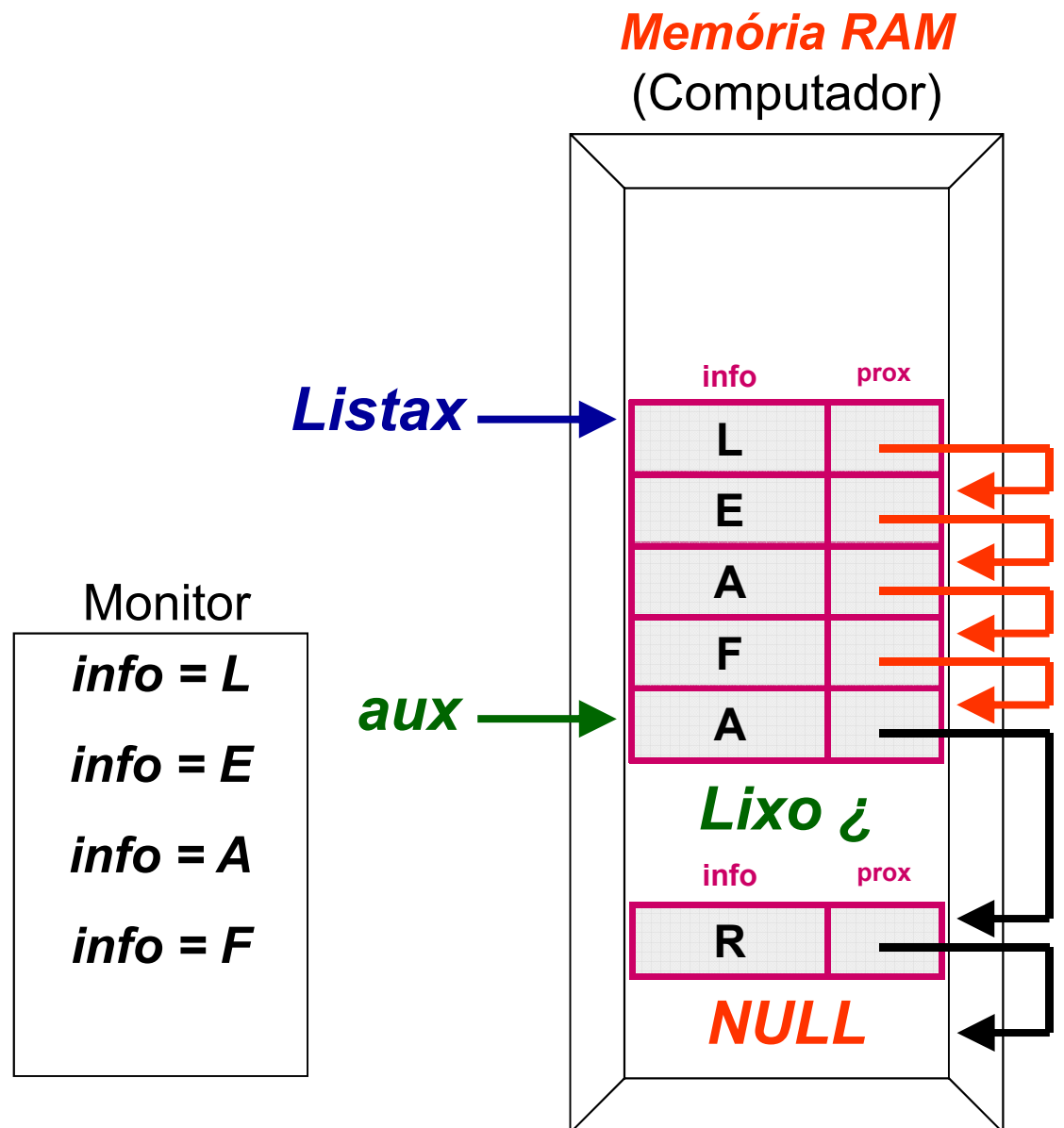
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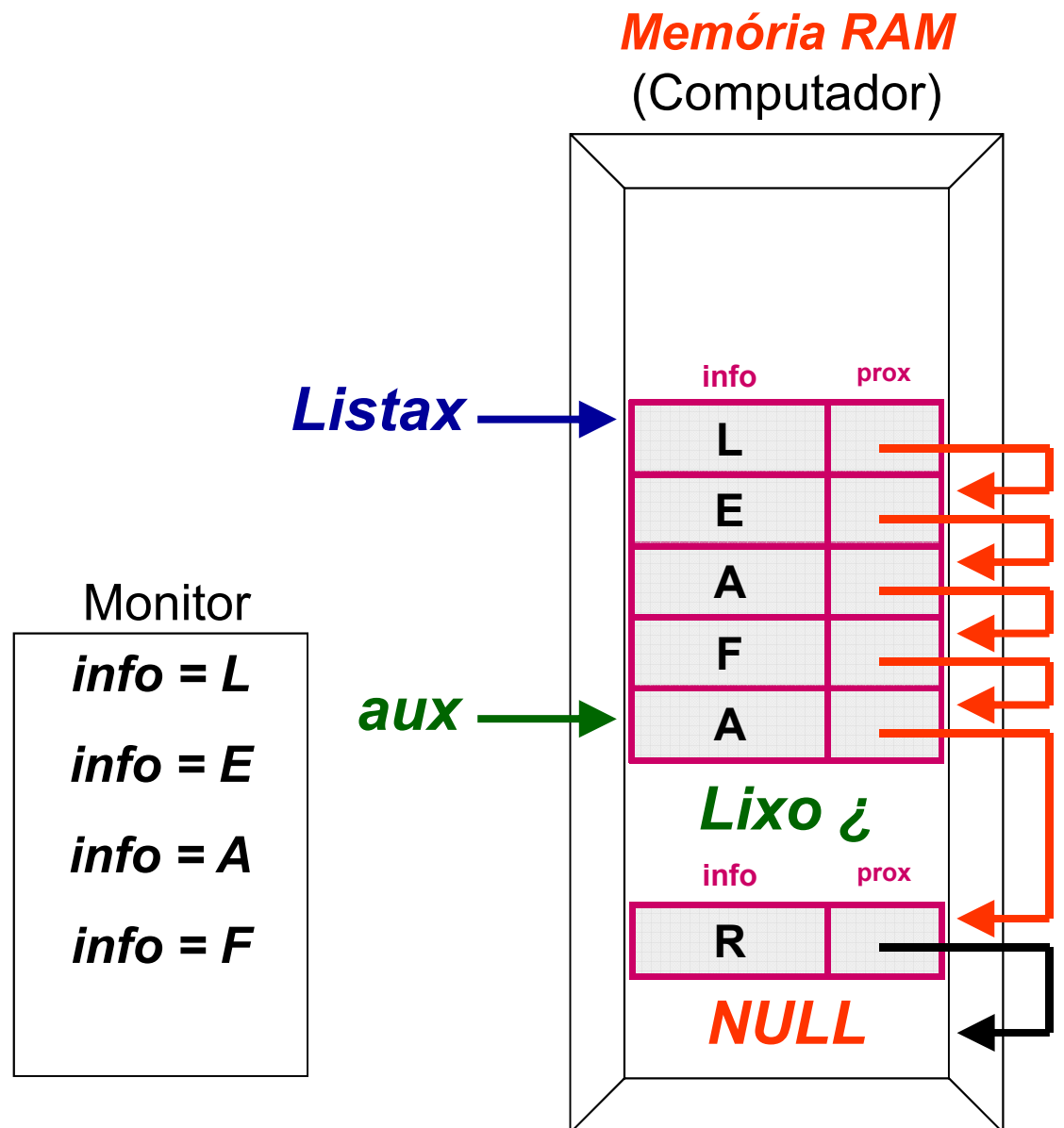
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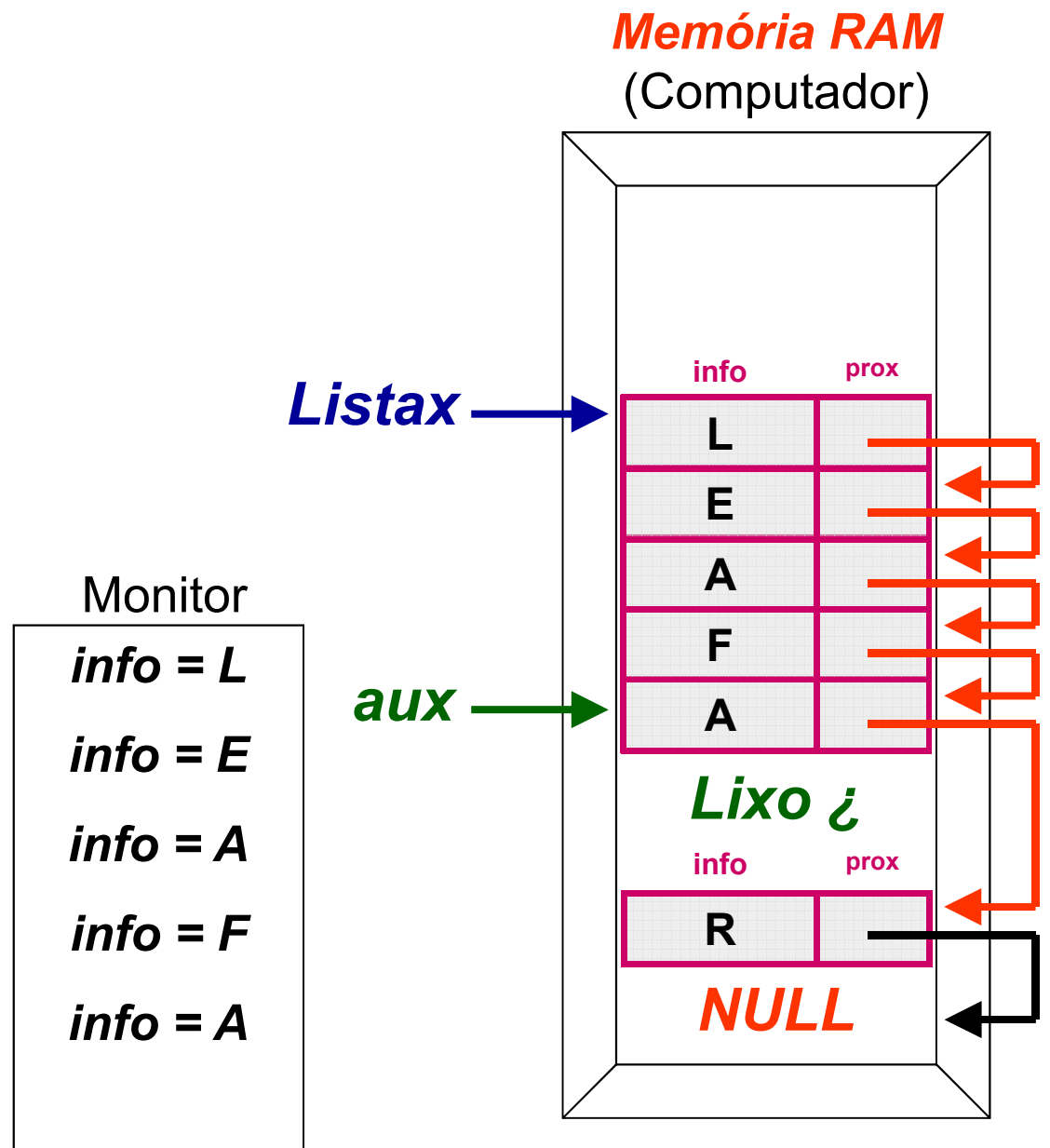
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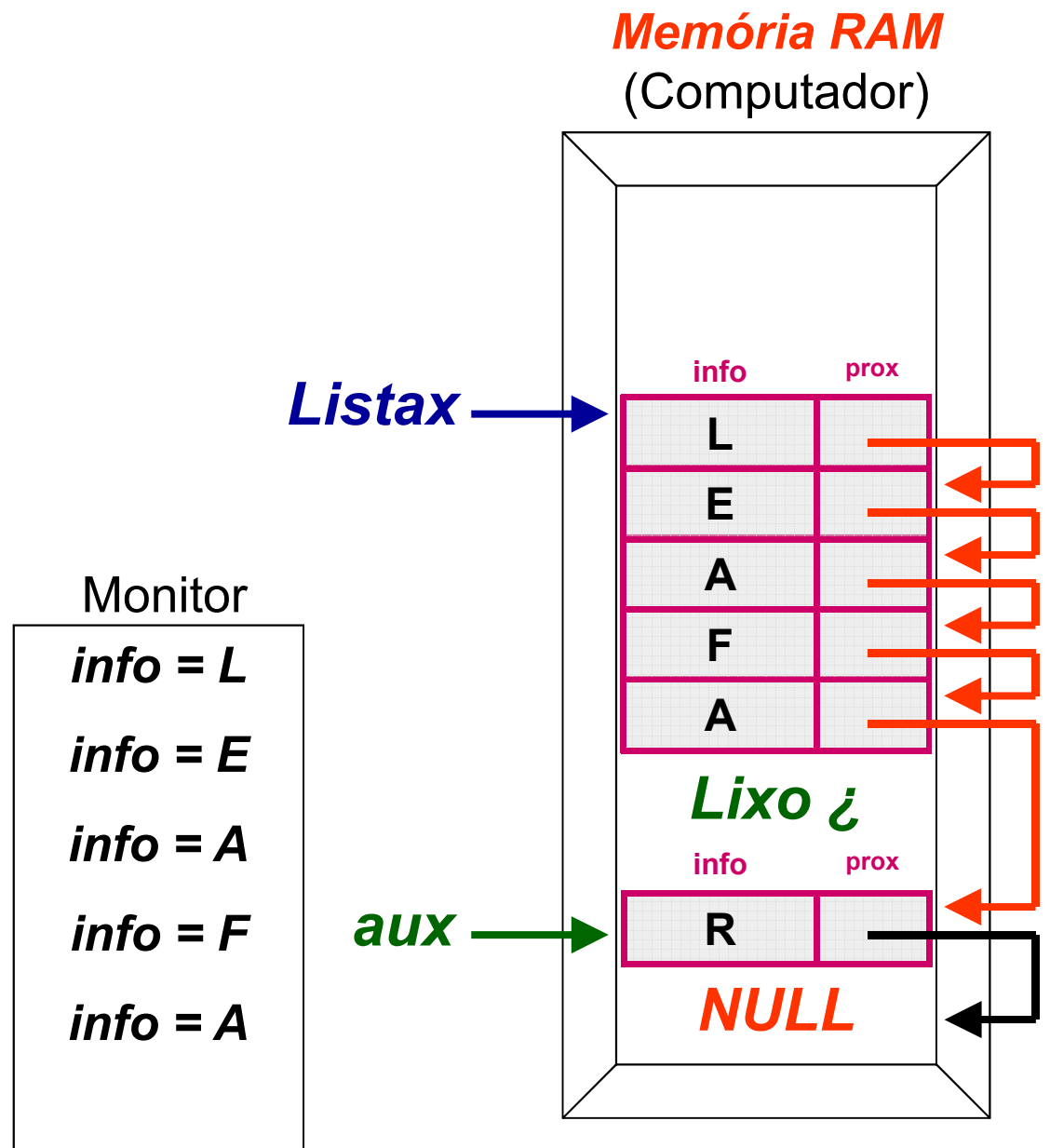
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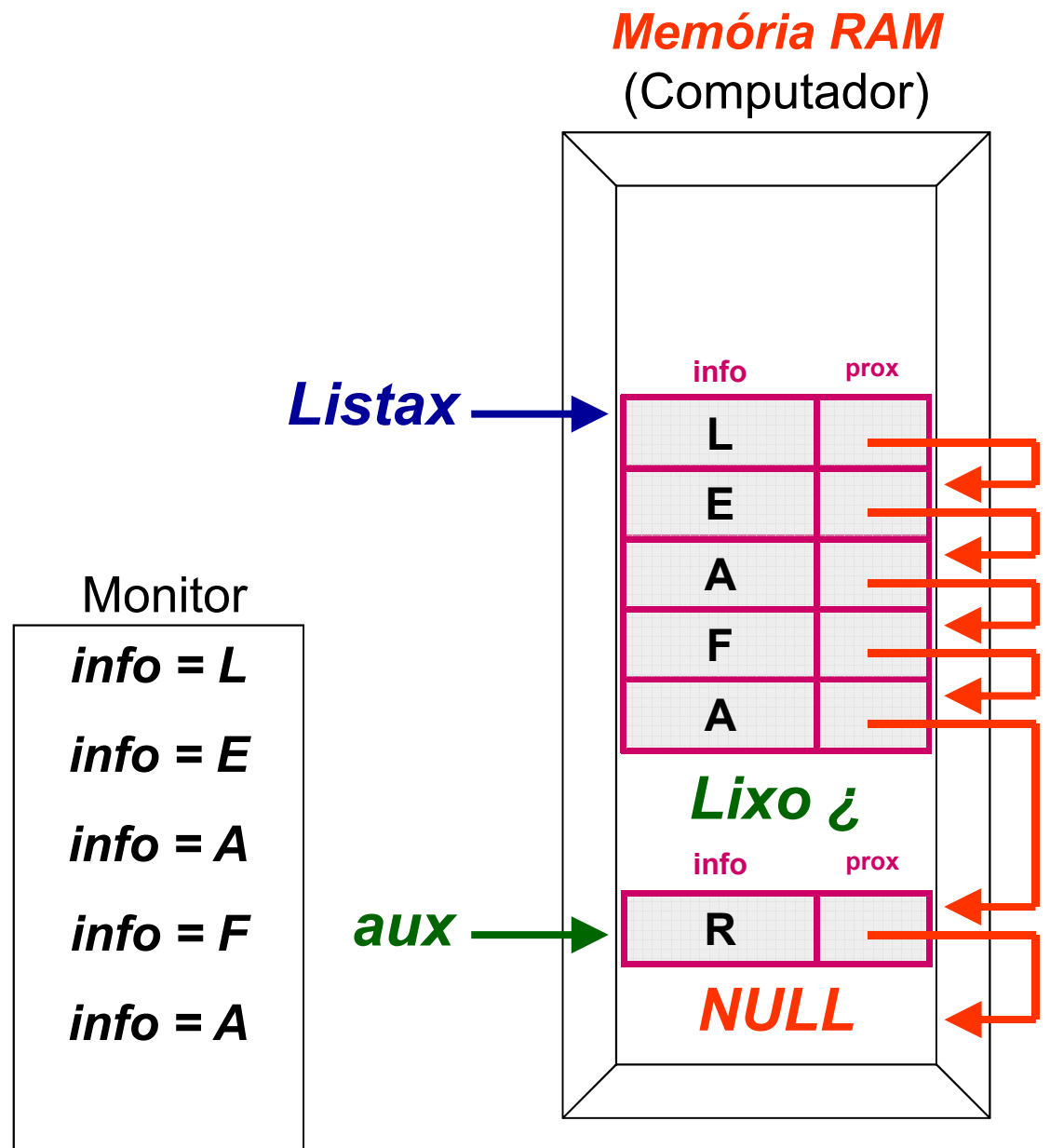
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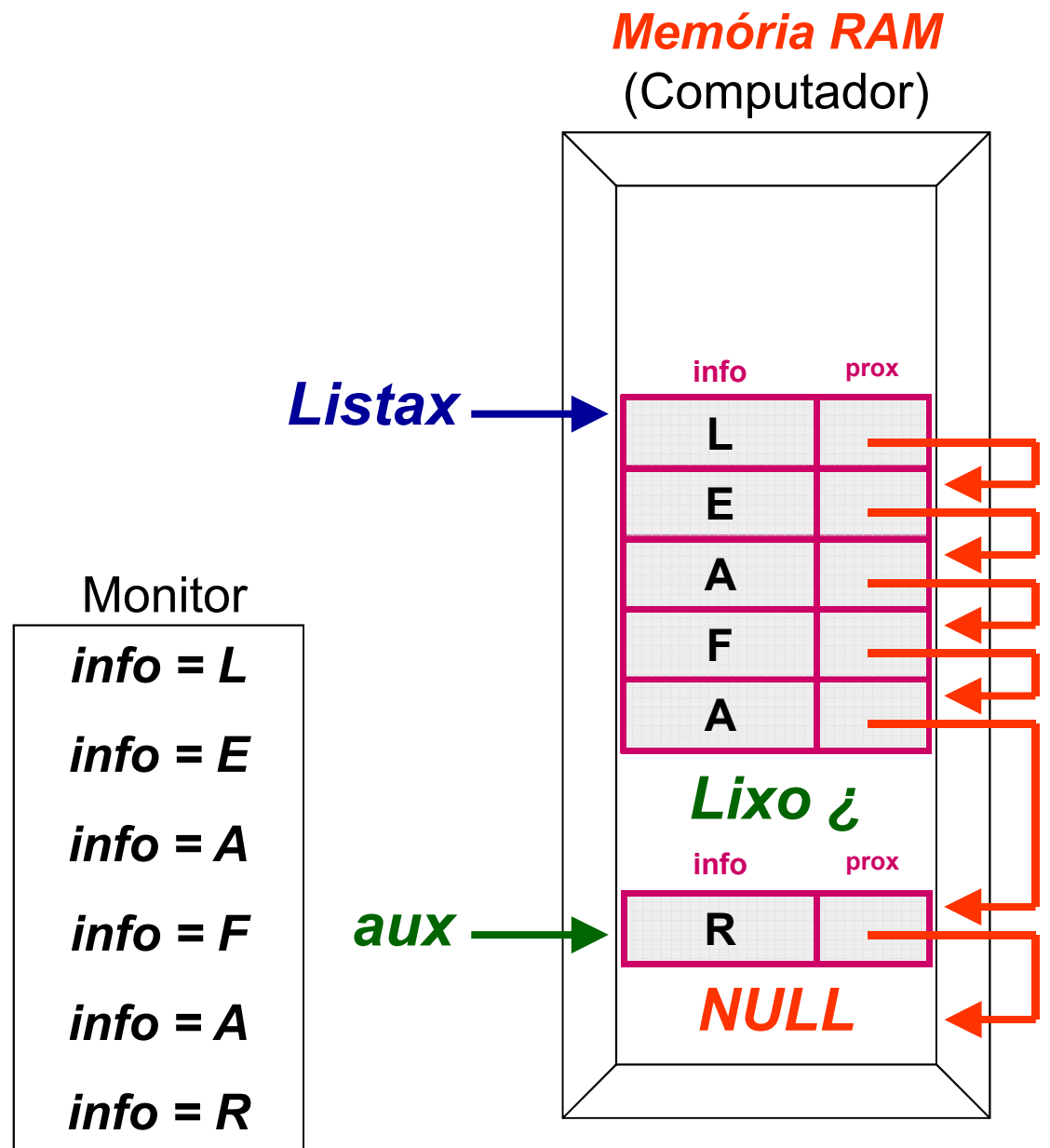
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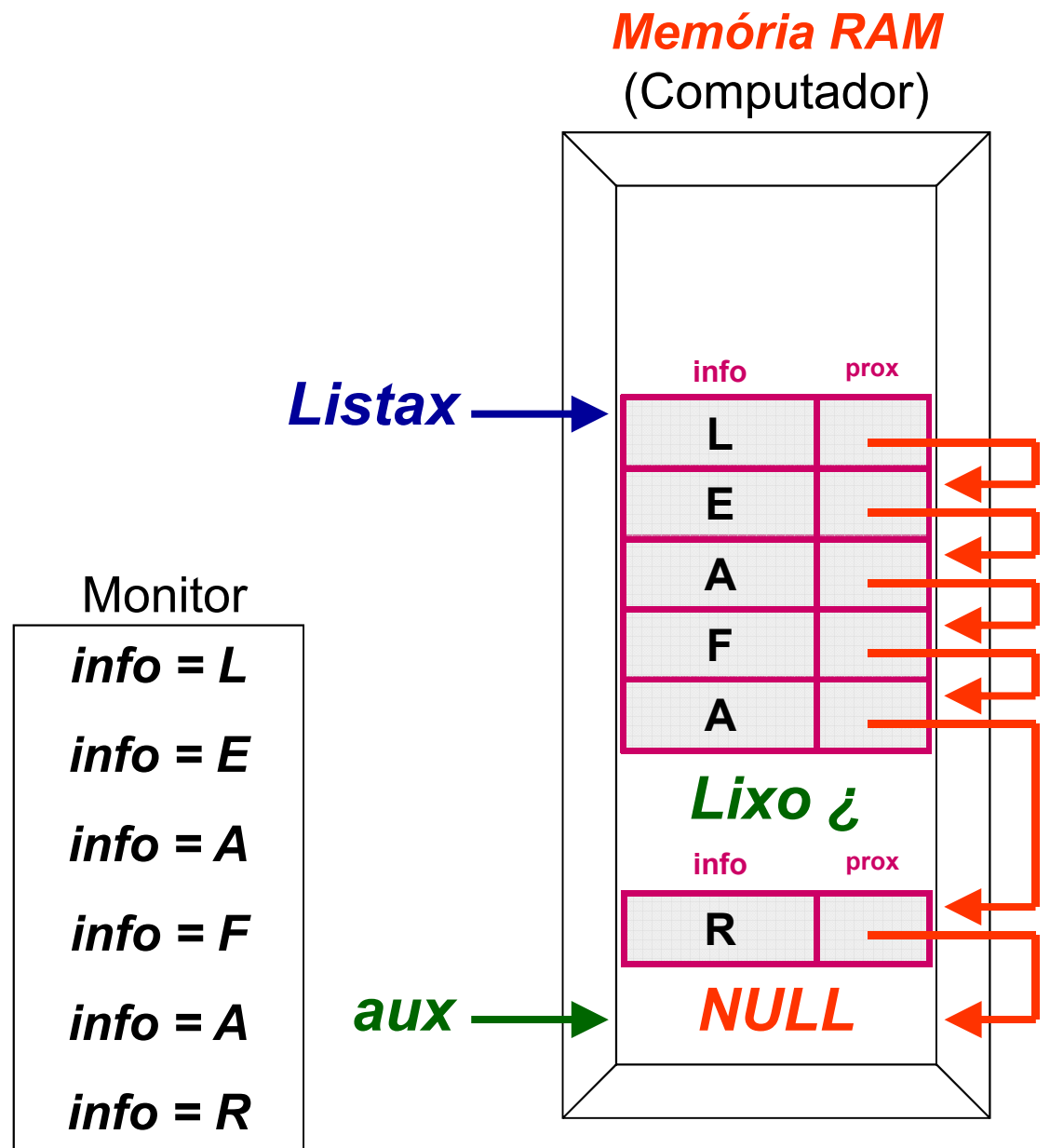
Lista Dinâmica



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Lista Dinâmica



Fim Imprime!

Até a próxima...