

Java

6

array, matriz, tabela

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Array

- Array = Tabela (*Uma sequência de objectos*)

Variável	Conteúdo
aUm	1
bab	3
ci	5
daa	9

```
int aUm=1;  
int bab=3;  
int ci=5;  
int daa=9;
```

Variável	Conteúdo
oAb	1
	3
	5
	9
length	4

```
int[] oAb= {1, 3, 5, 9};
```

Array

Variável	Conteúdo
aUm	1
bab	3
ci	5
daa	9

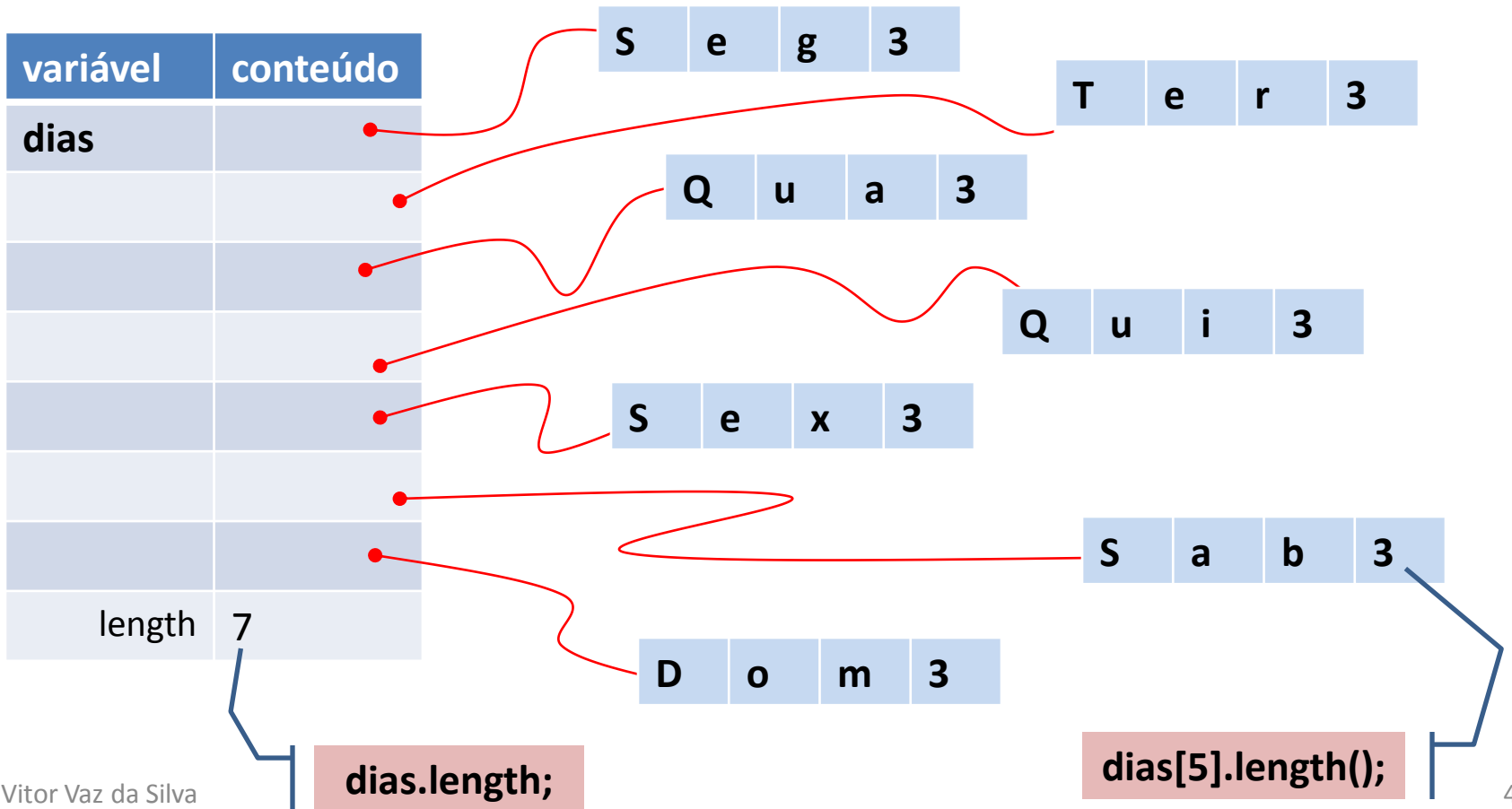
```
int aUm;  
int bab;  
int ci;  
int daa;  
  
aUm=1;  
bab=3;  
ci=5;  
daa=9;
```

Variável	Conteúdo
oAb	1
	3
	5
	9
length	4

```
int[] oAb= new int[4];  
  
oAb[0]=1;  
oAb[1]=3;  
oAb[2]=5;  
oAb[3]=9;  
  
int tamanho = oAb.length; // CERTO  
oAb.length = tamanho;    //ERRADO  
oAb = {1, 3, 5, 9};      //ERRADO
```

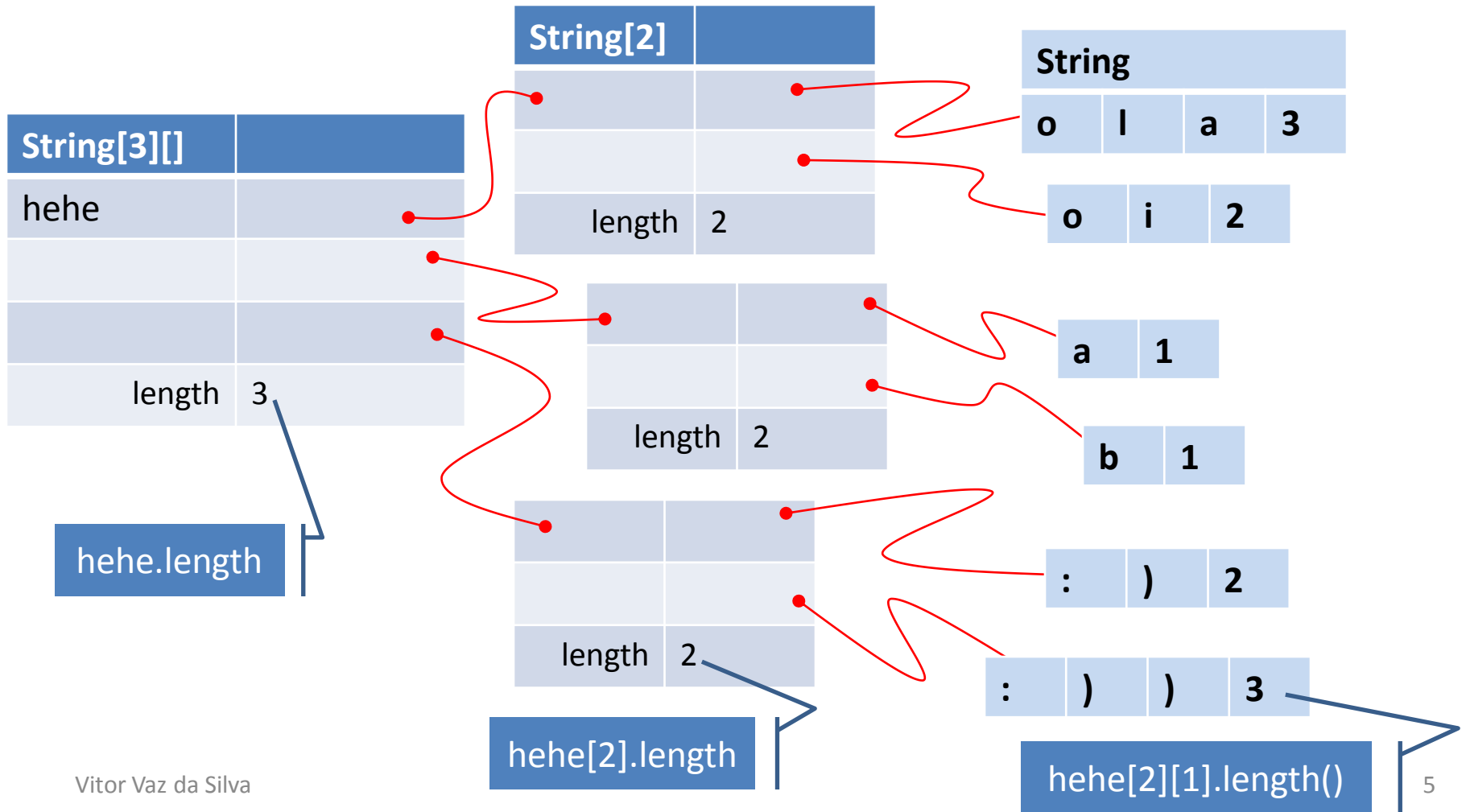
Array

```
String dias[] = {"seg", "ter", "qua", "qui", "sex", "sab", "dom"};
```



Array

```
String[][] hehe = { {"ola", "oi"}, {"a", "b"}, {":)", ":))"} };
```

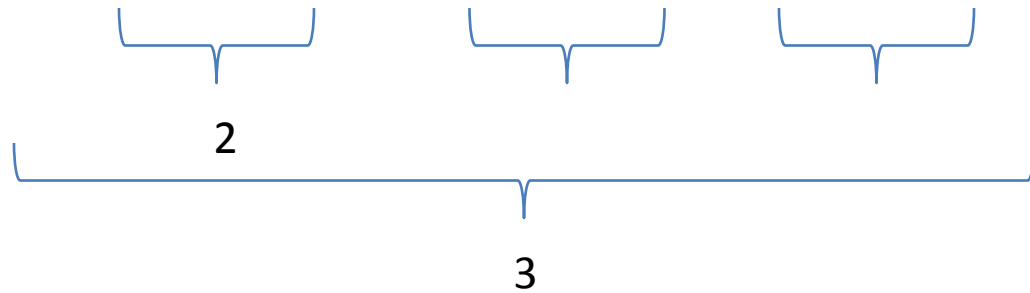


Array

```
String[][] hehe = { {"ola", "oi"}, {"a", ""}, {"", ""} };
```

```
String[][] hehe;
```

```
String hehe[][];
```



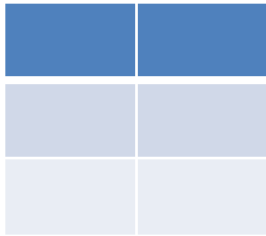
```
hehe = new String [3][2];
```

```
hehe = new String [][] { {"a", "b"}, {"x", "y"}, {"U", "u"} };
```

```
hehe[2] = new String [] {"U", "u"};
```

```
hehe[2][1] = "u";
```

Array



linha = tabelaA [0]; // é uma linha com duas colunas

obj = tabelaA [0] [0]; // é um objecto

Objecto tabelaA [3] [2];

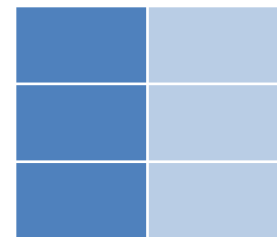
Tabela = linhas com colunas



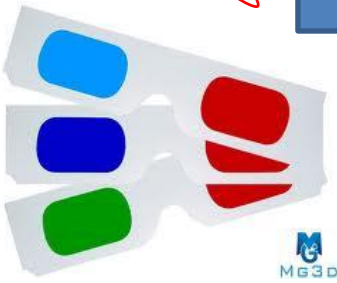
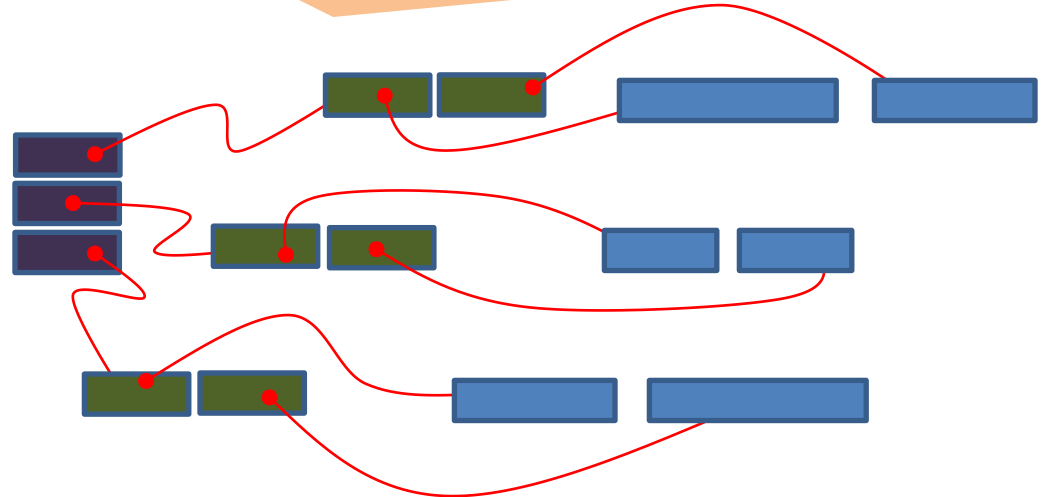
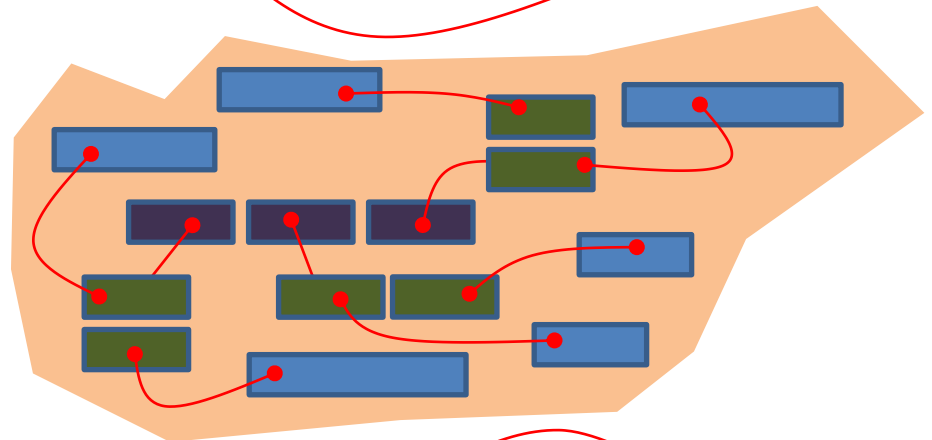
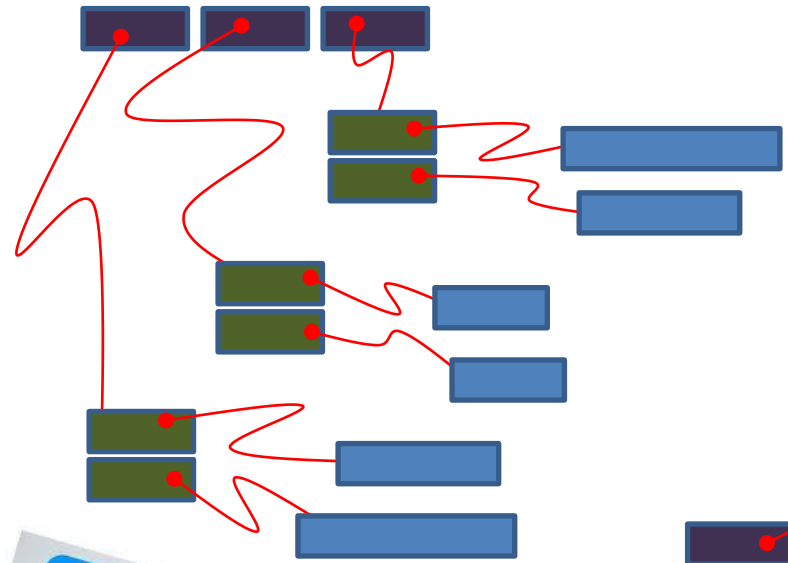
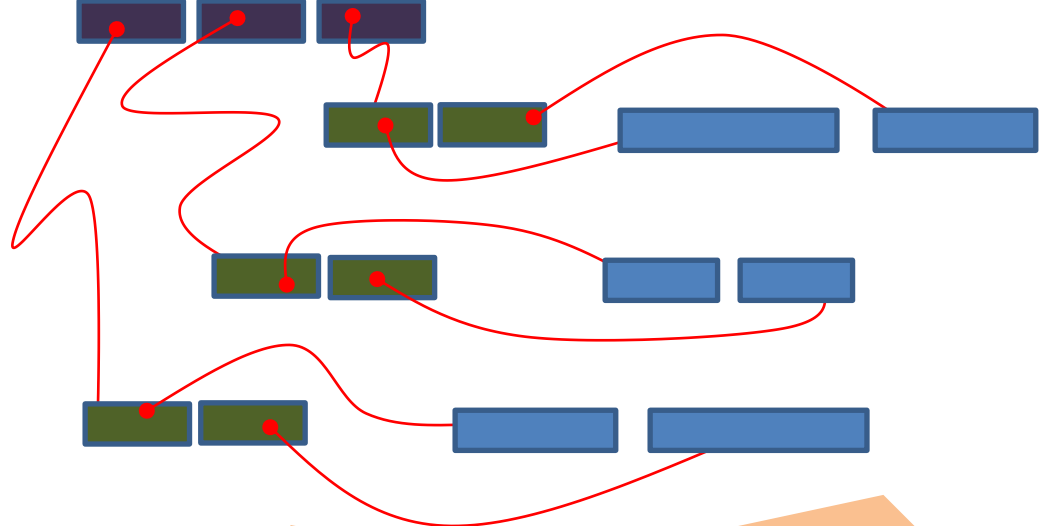
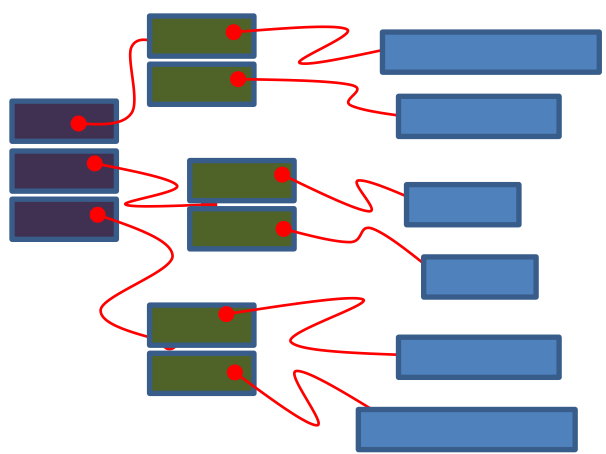
Tabela = colunas com linhas

linha = tabelaB [0]; // é uma coluna com três linhas

obj = tabelaB [0] [0]; // é um objecto



Objecto tabelaB [2] [3];



Exercícios

- Escreva num array todos os números ímpares entre 1 e 20. Mostre o conteúdo do array.
- Escreva num array bidimensional separadamente os números ímpares e os pares de 1 a 20. Mostre o conteúdo do array.

Exercícios

- Calcule os primeiros 20 números primos

Referências

- <http://tektonia.com>