## Grafo

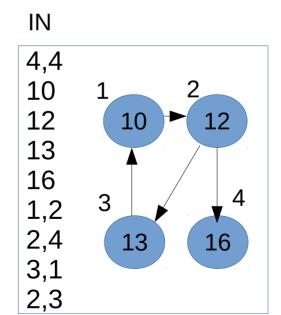
```
int num vertices;
list<vertices>* adj;
```

Vertices:
int id;
int nota\_esperada;
int nota\_fim;
//ou então só uma nota
//cor para não repetir

Output: 15,16,16,16,15,16

```
Grafos:
    int num vertices;
    list<vertices>* adj;
Vertices:
    int id;
    int nota esperada;
    int nota fim;
    //ou então só uma nota
    //cor para não repetir
(lista={white,gray,black})
```

Na primeira linha, faz-se new das variaveis antes a null (Vertices e Arestas)



Out

16

16

13

16

## Algoritmo Tarjan



## Algoritmo de Tarjan

## SCC\_Tarjan(G)

```
\begin{tabular}{lll} & visited &\leftarrow 0 \\ L &\leftarrow 0 \\ \hline & for & u &\in G.V \ do \\ & d[u] &\leftarrow \infty \\ \hline & end \ for \\ \hline & for & u &\in G.V \ do \\ \hline & if & d[u] &== \infty \ then \\ \hline & Tarjan_Visit(G, \ u) \\ \hline & end \ if \\ & end \ for \\ \hline \end{tabular}
```

```
low[u] = max[u]
Min = max
```

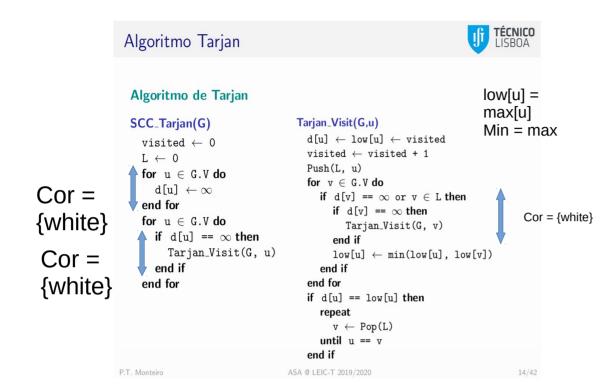
Cor = {white}

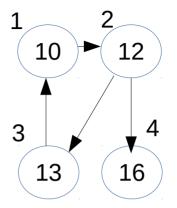
end if

repeat

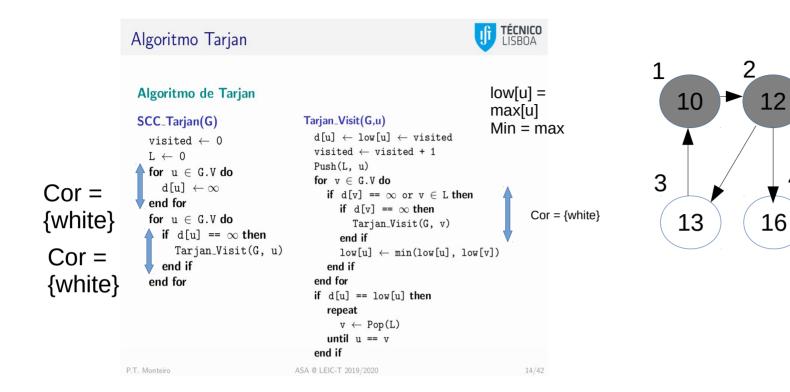
 $v \leftarrow Pop(L)$ 

until u == v

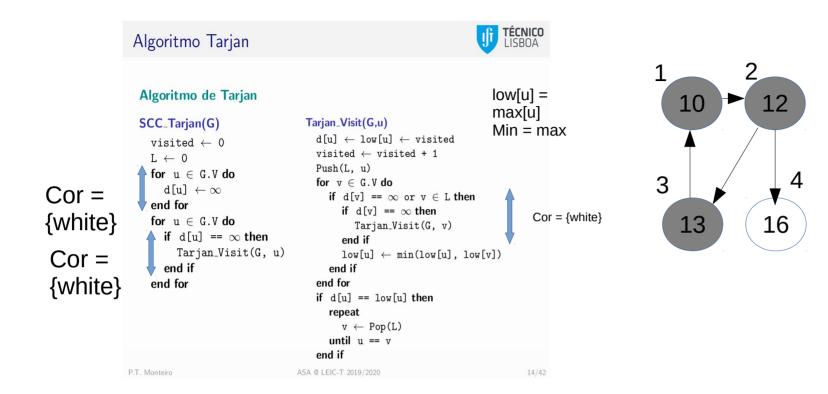




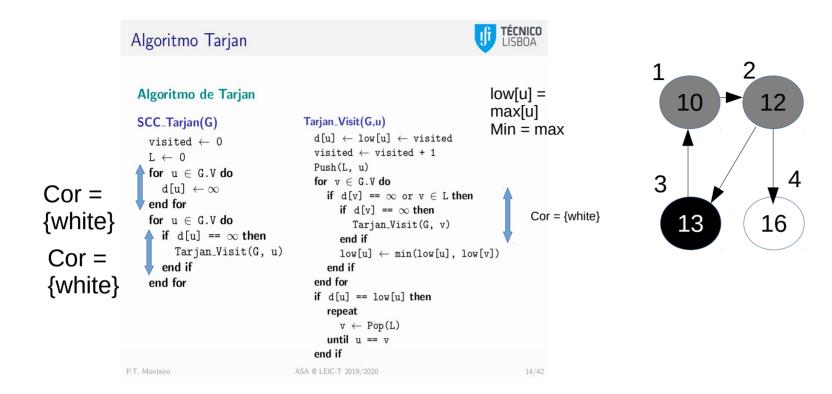
L= 1,



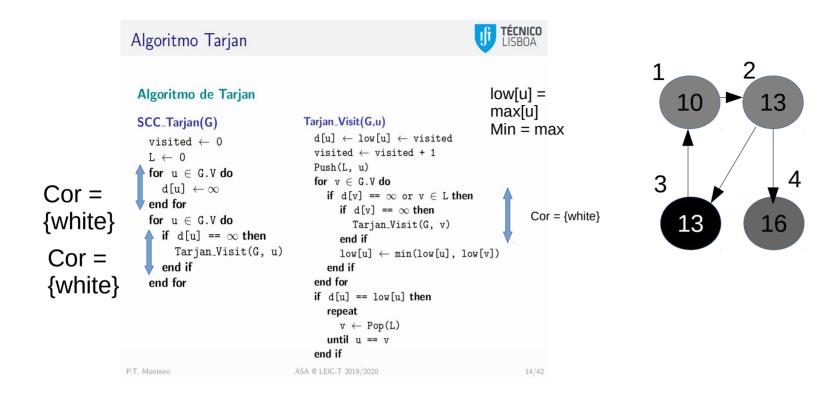
$$L=1, 2,$$



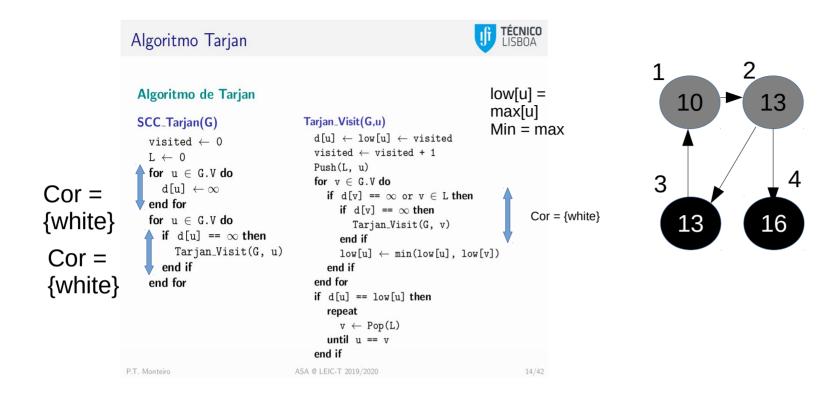
$$L=1, 2, 3$$

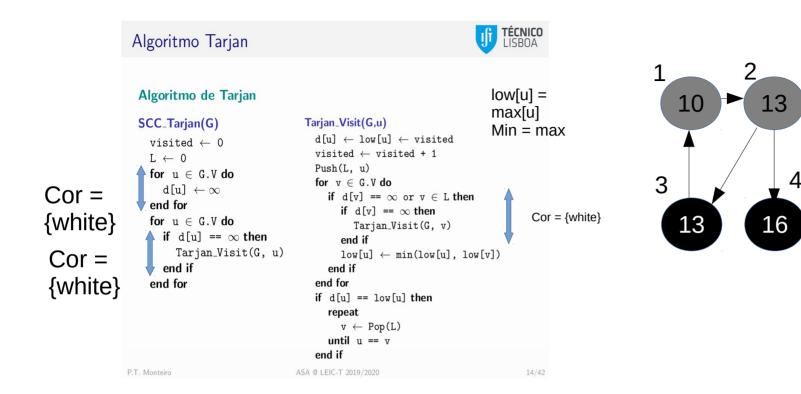


$$L=1, 2, \frac{3}{5}$$

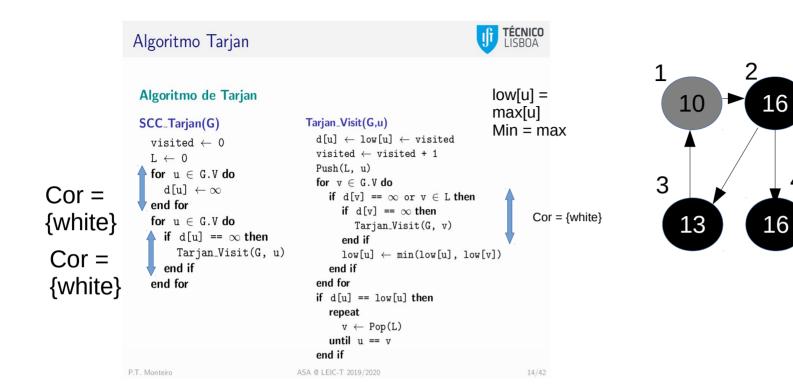


$$L=1, 2, \frac{3}{4}$$

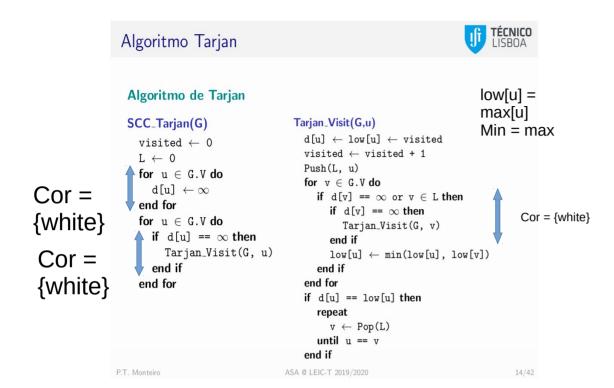


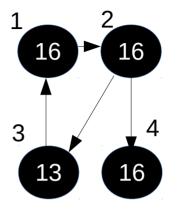


$$L=1, \frac{2, 3, 4}{4}$$

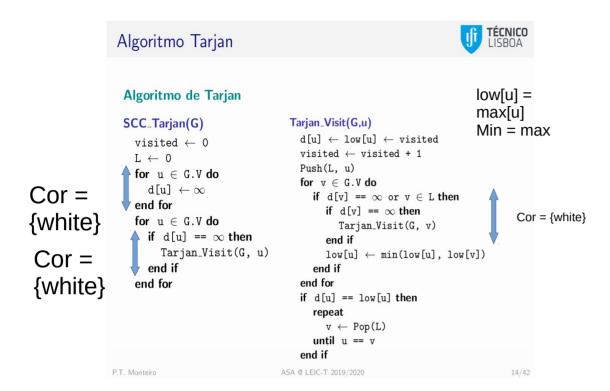


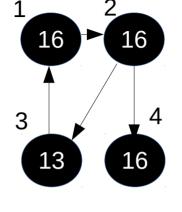
$$L=1, \frac{2, 3, 4}{4}$$





$$L = \frac{1}{2}, \frac{2}{3}, \frac{4}{4}$$





IN

 $L = \frac{1}{1}, \frac{2}{3}, \frac{3}{4}$ 

