

Correction du l'Interrogation 2 du Lundi 3 Novembre

Exercice 1 (Du cours)

Voir le cours...

Exercice 2 (Chemin dans un graphe)

1. (a) `let g = [| [2; 3; 4]; [2]; [0; 1; 3; 4]; [0; 2]; [0; 2] |] ;;`
(b) Voici le programme demandé :

```
let rec appartenance x l = match l with
| [] -> false
| t :: q -> (t = x) || (appartenance x q)
;;
```

- (c) Voici le programme demandé :

```
let rec chemin1 g l = match l with
| [] -> true
| [t] -> true
| t :: s :: q -> (appartenance t g.(s)) && (chemin1 g (s :: q))
;;
```

2. (a) `let g = [| [|0; 0; 1; 1; 1|]; [|0; 0; 1; 0; 0|]; [|1; 1; 0; 1; 1|];
[|1; 0; 1; 0; 0|]; [|1; 0; 1; 0; 0|] |] ;;`
(b) Voici le programme demandé :

```
let rec chemin2 g l = match l with
| [] -> true
| [t] -> true
| t :: s :: q -> (g.(t).(s) = 1) && (chemin2 g (s :: q))
;;
```
