Programmation fonctionnelle

1 Introduction: Aperçu du paradigme fonctionnel

Programmation fonctionnelle « programmation applicative » programmation uniquement avec des fonctions et des valeurs

Stide 1

Paradigme radicalement différent du paradigme traditionnel (impératif):

- Tous les calculs sont faits uniquement en évaluant des expressions (au sens "pur", mathématique du terme, c'est-à-dire sans effet de bord)
- 10. Pas de notion de variable modifiable
- 10- Pas de procédures, pas d'objets

Programme impératif « programme caractérisé par un état implicite qui est modifié par des instructions avec des effets de bord:

```
fact = 1;
for(i = 1 to n)
fact = fact * 1;
```

Stilde 2

Forme générale d'un programme fonctionnel = série de déclarations (constantes et fonctions) = une expression à évaluer

```
ident_1 = ...
ident_2 = ...
ident_k = ...
expression_a_evaluer
```

Note: une fonction, au sens mathématique du terme, n'est qu'une forme spéciale de constante!!

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Éric Leclercq

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