CS1101S Midterms

Ву: сху

Substitution model

Applicative order reduction

Evaluates innermost expression(s) before applying outer function(s)

Normal order reduction

Applies outermost function before evaluating inner expression(s)

Recursive v.s. Iterative

Recursive is a process that builds up a chain of deferred operations. Iterative is a process that does not "grow" or "shrink", i.e. the deferred operations do not increase as problem size increases.

Scope

Forms of declarations

Pre-declared names

Constant declarations

Parameters of function declarations and lambda expressions

Function names of function declarations

Scoping rule: a name refers to its **closest surrounding** declaration