Phase 11 d : Lambda Expressions

Lambda expressions provide a concise way to define anonymous functions.

(a)

Simple lambda expression

$\lambda\, x : \mathbb{N} \bullet x^2$

(b)

Multi-variable lambda

$\lambda\, x, y : \mathbb{N} \bullet x \land y$

(c)

Lambda with comparison

$\lambda\, x : \mathbb{N} \bullet x > 0$

(d)

Nested lambda expression

$\lambda\, x : X \bullet \lambda\, y : Y \bullet x \land y$

(e)

Lambda with quantifier in body

$\lambda\, x : X \bullet \forall\, y : Y \bullet x \lor y$