Phase 11 . 9 : Generic Type Instantiation

Example 1 : Basic Generic Instantiation

   (a)

$emptyset[N]$

   (b)

$seq[N]$

   (c)

$P[X]$

Example 2 : Complex Type Parameters

   (a)

$emptyset[N \times N]$

   (b)

$P[\mathbb{P}\ X]$

   (c)

$seq[N \times N]$

Example 3 : Multiple Type Parameters

   (a)

$Type[A, B]$

   (b)

$Container[X, Y, Z]$

Example 4 : Nested Generic Instantiation

   (a)

$Type[List[N]]$

   (b)

$Container[seq[N]]$

Example 5 : Chained Generic Instantiation

(a)

$Type[N][M]$

Example 6 : Generic Types in Expressions

(a)

$x \in Type[N]$

(b)

$A \subseteq P[X]$

(c)

$emptyset[N] \cup \{x\}$

Example 7 : Generic Types in Set Comprehensions

(a)

$\{s : P[N] \mid s = emptyset[N]\}$

(b)

$\{x : seq[N] \mid \#x > 0\}$