

[Dashboard](#) / [Courses](#) / [University](#) / [2021-2022](#) / [Spring 2022](#) / [Bachelors](#) / [Block 2 Bs](#) / [\[S22\]ACC&PA](#) / [Quizzes — 10%](#)
 / [Quiz 11 — Apr 28 from 9:10 to 9:20 \(10 minutes\)](#)

Started on Thursday, 28 April 2022, 9:11 AM

State Finished

Completed on Thursday, 28 April 2022, 9:16 AM

Time taken 4 mins 30 secs

Marks 2.00/2.00

Grade 10.00 out of 10.00 (100%)

Question 1

Correct

Mark 1.00 out of 1.00

Type reconstruction is decidable for simply typed lambda calculus. That is, for any untyped lambda term m , we can either find a well-typed term t in simply typed lambda calculus, such that $\text{erase}(t) = m$, or fail with a typing error, in finite time.

Select one:

- ☒ True ✓
☐ False

The correct answer is 'True'.

Question 2

Correct

Mark 1.00 out of 1.00

Find principal unifier (if it exists) for each set of constraints.

| | | |
|--|---|---|
| $\{X \rightarrow Y = Y \rightarrow Z, Z = U \rightarrow W\}$ | $[X=U \rightarrow W, Y=U \rightarrow W]$ | ✓ |
| $\{\text{Nat} \rightarrow \text{Bool} = X \rightarrow X\}$ | Principal unifier does not exist | ✓ |
| $\{\text{Nat} = \text{Nat}\}$ | $[]$ | ✓ |
| $\{\text{Nat} \rightarrow \text{Bool} = X \rightarrow Y\}$ | $[X=\text{Nat}, Y=\text{Bool}]$ | ✓ |
| $\{Y = X \rightarrow X, X = \text{Nat}\}$ | $[X=\text{Nat}, Y=\text{Nat} \rightarrow \text{Nat}]$ | ✓ |

Your answer is correct.

The correct answer is: $\{X \rightarrow Y = Y \rightarrow Z, Z = U \rightarrow W\} \rightarrow [X=U \rightarrow W, Y=U \rightarrow W]$, $\{\text{Nat} \rightarrow \text{Bool} = X \rightarrow X\} \rightarrow$ Principal unifier does not exist, $\{\text{Nat} = \text{Nat}\} \rightarrow []$, $\{\text{Nat} \rightarrow \text{Bool} = X \rightarrow Y\} \rightarrow [X=\text{Nat}, Y=\text{Bool}]$, $\{Y = X \rightarrow X, X = \text{Nat}\} \rightarrow [X=\text{Nat}, Y=\text{Nat} \rightarrow \text{Nat}]$

◀ Quiz 10 — Apr 27 from 10:50 to 11:00 (10 minutes)

Jump to...

[Data retention summary.](#)

[Get the mobile app](#)