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Dashboard / Courses / University / 2021-2022 / Spring 2022 / Bachelors / Block 2 Bs / [S22]ACC&PA / Quizzes — 10%
  / Quiz 7 — Apr 14 from 9:10 to 9:20 (10 minutes)
                        Started on Thursday, 14 April 2022, 9:10 AM
                                        State Finished
             Completed on Thursday, 14 April 2022, 9:19 AM
                       Time taken 9 mins 12 secs
                                     Marks 0.00/2.00
                                     Grade 0.00 out of 10.00 (0%)
Question 1
Incorrect
 Mark 0.00 out of 1.00
    In simply typed lambda calculus with subtyping, records, functions, Top and Bot types, how many supertypes does the following type have?
     {a:{b:Top,c:Top}}
     Answer:
                                3
     The correct answer is: 8
Question 2
Incorrect
Mark 0.00 out of 1.00
    In simply typed lambda calculus with subtyping, records, functions, Top and Bot types, select the TRUE statements.
        \square a. {a : Top} \rightarrow {b : Bool} is a subtype of Top
        \square b. {a : {x : Nat→Bool} → Nat } → {b : Bool} is a subtype of {a : {x : Top→Top} → Nat} → Top
        \square C. {a : {x : Nat \rightarrow Bool} \rightarrow Nat } \rightarrow {b : Bool} is a subtype of {a : Top} \rightarrow Top
        ■ d. \{a : \{x : Nat \rightarrow Bool\} \rightarrow Nat \} \rightarrow \{b : Bool\} \text{ is a subtype of } \{a : Bot\} \rightarrow Top\}
        \bigvee f. {a : Nat→Top} → {b : Bool} is a subtype of {a : Nat→Bool} → Top
     Your answer is incorrect.
     The correct answers are: {a : Top} → {b : Bool} is a subtype of Top, {a : Nat→Top} → {b : Bool} is a subtype of {a : Nat→Bool} → Top, {a
      : \{x : Nat \rightarrow Bool\} \rightarrow Nat \} \rightarrow \{b : Bool\} is a subtype of \{a : Bot\} \rightarrow Top, \{a : \{x : Nat \rightarrow Bool\} \rightarrow Nat \} \rightarrow \{b : Bool\} is a subtype of \{a : \{x : Nat \rightarrow Bool\} \rightarrow Nat \} \rightarrow \{b : Bool\} is a subtype of \{a : \{x : Nat \rightarrow Bool\} \rightarrow Nat \} \rightarrow \{b : Bool\} is a subtype of \{a : \{x : Nat \rightarrow Bool\} \rightarrow Nat \} \rightarrow \{b : Bool\} is a subtype of \{a : \{x : Nat \rightarrow Bool\} \rightarrow Nat \} \rightarrow \{b : Bool\} is a subtype of \{a : \{x : Nat \rightarrow Bool\} \rightarrow Nat \} \rightarrow \{b : Bool\} is a subtype of \{a : \{x : Nat \rightarrow Bool\} \rightarrow Nat \} \rightarrow \{b : Bool\} is a subtype of \{a : \{x : Nat \rightarrow Bool\} \rightarrow Nat \} \rightarrow \{b : Bool\} is a subtype of \{a : \{x : Nat \rightarrow Bool\} \rightarrow Nat \} \rightarrow \{b : Bool\} is a subtype of \{a : \{x : Nat \rightarrow Bool\} \rightarrow Nat \} \rightarrow \{b : Bool\} is a subtype of \{a : \{x : Nat \rightarrow Bool\} \rightarrow Nat \} \rightarrow \{b : Bool\} is a subtype of \{a : \{x : Nat \rightarrow Bool\} \rightarrow Nat \} \rightarrow \{b : Bool\} is a subtype of \{a : \{x : Nat \rightarrow Bool\} \rightarrow Nat \} \rightarrow \{b : Bool\} is a subtype of \{a : \{x : Nat \rightarrow Bool\} \rightarrow Nat \} \rightarrow \{b : Bool\} is a subtype of \{a : \{x : Nat \rightarrow Bool\} \rightarrow Nat \} \rightarrow \{b : Bool\} is a subtype of \{a : \{x : Nat \rightarrow Bool\} \rightarrow Nat \} \rightarrow \{b : Bool\} is a subtype of \{a : \{x : Nat \rightarrow Bool\} \rightarrow Nat \} \rightarrow \{b : Bool\} is a subtype of \{a : \{x : Nat \rightarrow Bool\} \rightarrow Nat \} \rightarrow \{b : Bool\} is a subtype of \{a : \{x : Nat \rightarrow Bool\} \rightarrow Nat \} \rightarrow \{b : Bool\} is a subtype of \{a : \{x : Nat \rightarrow Bool\} \rightarrow Nat \} \rightarrow \{b : Bool\} is a subtype of \{a : \{x : Nat \rightarrow Bool\} \rightarrow Nat \} \rightarrow \{b : Bool\} is a subtype of \{a : \{x : Nat \rightarrow Bool\} \rightarrow Nat \} \rightarrow \{b : Bool\} is a subtype of \{a : \{x : Nat \rightarrow Bool\} \rightarrow Nat \} \rightarrow \{b : Bool\} is a subtype of \{a : \{x : Nat \rightarrow Bool\} \rightarrow Nat \} \rightarrow \{b : Bool\} is a subtype of \{a : \{x : Nat \rightarrow Bool\} \rightarrow Nat \} \rightarrow \{b : Bool\} is a subtype of \{a : \{x : Nat \rightarrow Bool\} \rightarrow Nat \} \rightarrow \{b : Bool\} is a subtype of \{a : \{x : Nat \rightarrow Bool\} \rightarrow Nat \} \rightarrow \{b : Bool\} is a subtype of \{a : \{x : Nat \rightarrow Bool\} \rightarrow Nat \} \rightarrow \{b : Bool\} is a subtype of \{a : \{x : Nat \rightarrow Bool\} \rightarrow Nat \} \rightarrow \{b : Bool\}
      : Top} → Nat} → Top
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Comment:

■ Quiz 6 — Apr 13 from 10:50 to 11:00 (10 minutes)

Jump to...

Quiz 8 — Apr 20 from 10:50 to 11:00 (10 minutes) ▶

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