Account (6) Dashboard Courses  $\mathbb{Z}^g$ 

Discussions

<u>Grades</u> People **Pages** 

Gradescope

Groups **Syllabus** Calendar Quizzes Modules

Inbox BigBlueButton Collaborations History Chat Follett Follett Discover Discover

? Help Student Resources Library

Refer a Student Syllabus Blueprint

Spring 2024 Home

Assignments

30

Quiz15

**Attempt History** 

Due Mar 25 at 12pm Points 10 Available Mar 20 at 12am - Mar 25 at 12pm

Questions 7 Time Limit None

Score

10 out of 10

1 / 1 pts

**Submission Details:** 

**Current Score:** 10 out of 10

Time:

**Kept Score:** 

7 minutes

10 out of 10

Time

**LATEST** 7 minutes Attempt 1

① Correct answers will be available on Mar 25 at 2pm.

**Attempt** 

Score for this quiz: 10 out of 10 Submitted Mar 25 at 12:42am This attempt took 7 minutes.

Question 2

1 / 1 pts Question 1 Hindley-Milner type inference algorithm is used in Haskell Java O C C++

Hindley-Milner type inference algorithm receives as input ... the parse tree of the program • the absract syntax tree of the program the list of tokens the symbol table 4 / 4 pts Question 3 Instantiation or unification in Hindley-Milner type inference algorithm?

instantiation

Note: a,b,c are type variables below.

type variable (a) is

replaced with (Int)

f x = x

subtype

ad-hoc

parametric: explicit

parametric: implicit

type variable (a) is unification replaced with type variable (b) type variable (a) is instantiation replaced with polymprhic type (b -> c) type variable (a) is instantiation replaced with (b -> Int) 1 / 1 pts **Question 4** In the definition below in Haskell, which kind of polymorphism is used? f :: a -> a

1 / 1 pts Question 5 In the definition below in Java, which kind of polymorphism is used? class Circle extends Shape { parametric: explicit parametric: implicit subtype ad-hoc

1 / 1 pts Question 6 In the definition below in C, which kind of polymorphism is used? int min (int x, int y) { if (x < y) return x else return y; float min (float x, float y) { if (x < y) return x else return y; parametric: explicit parametric: implicit subtype ad-hoc

1 / 1 pts **Question 7** In the definition below in Python, which kind of polymorphism is used? def f (x):return x parametric: implicit ad-hoc subtype parametric: explicit

Quiz Score: 10 out of 10

◆ Previous

Next ▶