CS 571 Quiz 4

Nov 9 15 points Closed book Closed notes

Important Reminder: As per the course Academic Honesty Statement, cheating of any kind will minimally result in receiving an F letter grade for the entire course.

Please ensure that you have filled-in BOTH your name and B-number in the bubbles on the provided grid-sheet.

For each of the following questions, select a **single** alternative on the grid-sheet.

There are 7 questions with 2-points per question; there is 1-point for submitting the quiz.

1. What will be the result of evaluating the following Haskell expression?

length [[1, 2], [3, 4], [5]]

- (a) An error will occur.
- (b) 2.
- (c) 3.
- (d) 4.
- (e) 5.

2. What will be the result of evaluating the following Haskell expression?

length $[(x, y) | x \leftarrow [1..10], y \leftarrow "abcde"]$

- (a) An error will occur.
- (b) 10.
- (c) 15.
- (d) 20.
- (e) 50.

3. What will be the result of evaluating the following Haskell expression?

foldl (-) 1 [1, 2, 3]

- (a) An error will occur.
- (b) 1.
- (c) -1
- (d) 5.
- (e) -5.

4. What will be the value of evaluating the following Haskell expression?

foldr (-) 1 [1, 2, 3]

- (a) An error will occur.
- (b) 1.
- (c) -1
- (d) 5.
- (e) -5.

- 5. Which of the following is not a legal Haskell expression?
 - (a) [1, 2, 3].
 - (b) ['a', 'b'] ++ "c".
 - (c) [1, 2, [1]].
 - (d) [['a', 'b'], "cd"].
 - (e) [[1], [2]].
- 6. What will be the result of evaluating the following Haskell expression?

- (a) An error will occur.
- (b) "abcdef".
- (c) "fedcba".
- (d) "xabcdef".
- (e) "abcdefx".
- 7. Given sets $A = \{1, 2, 3, 4\}$ and $B = \{a, b, c, d\}$, which of the following is **not** a function from A to B.
 - (a) {}.
 - (b) $\{(1,a),(2,a),(3,a),(4,a)\}.$
 - (c) $\{(1,a),(2,b),(3,c),(4,d)\}.$
 - (d) $\{(1,b),(2,b),(1,d),(4,d)\}.$
 - (e) $\{(1,a)\}.$