CSCI 305 Participation Event 3

Due Date: February 21, 2018 @ End of Class

Group Members:		

Exercise 1

Consider an unknown language with integer and string types in which 1 + 2 * 3 evaluates to 7, "1" + "2" + "3" evaluates to "123", "1" + 2 + 3 evaluates to "123", and 1 + "2*3" has a type error. Describe a system of precedence, associativity, overloading, and coercion that could account for this. In your system what is the result of evaluating the expression: "1" + 2 * 3 ?

Exercise 2

Consider an unknown language with integer and real types in which 1+2, 1.0+2, 1+2.0, and 1.0+2.0 are all legal expressions.

- Explain how this could be the result of coercion, using no overloading
- Explain how this could be the result of overloading, using no coercion
- Explain how this could be the result from subtype polymorphism, with no overloading or coercion