

Principles of Programming Languages - Final

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1 Instructions

1. Each question is worth 4 points.
2. Attempt as many problems as you can. You will be given partial credit, as per the policy discussed in class.

2 Problems

1. Compare Fully Static and Stack-Based Runtime procedure environments with respect to advantages and disadvantages.
2. How is the **if** statement different from the **if** operator in the **C** language?
3. How do expressions and statements differ? What is short-circuit evaluation when applied to programming languages? Briefly describe some of the benefits of this form of evaluation.
4. Distinguish between *ad hoc* polymorphism, implicit parametric polymorphism and explicit parametric polymorphism.
5. Enumerate the different types of Constants that exist in a programming language.