

## CS 3723: Programming Languages

Apr 30, 2012

You Name:

1. Categorize each of the following design philosophies as belonging to Java or C++.
  - (a) Provide a large variety of implementation strategies and rely on developers to specify which strategies to use based on their needs.
  - (b) Enforce a set of stringent rules and protect developers from making the wrong decisions.
  - (c) Avoid runtime checks to ensure efficiency of generated code.
  - (d) Perform runtime checks to ensure safety of generated code.
2. Which of the following is *NOT* correct in terms of formulating differences between C++ and Java?
  - (a) C++ is compiled, while Java is both compiled and interpreted.
  - (b) C++ is statically linked, while Java is dynamically linked.
  - (c) Java allocates objects in the heap, while C++ allocate objects in the stack.
  - (d) Java is type safe, C++ is not.
  - (e) C++ support multiple inheritance, Java does not.