

The Venn diagram below refers to any general-purpose programming language, such as C, C++ or Java. It is generally easy to find examples of programs in sets (i), (ii) and (iv). However, in principle, not every language would yield examples in set (iii).

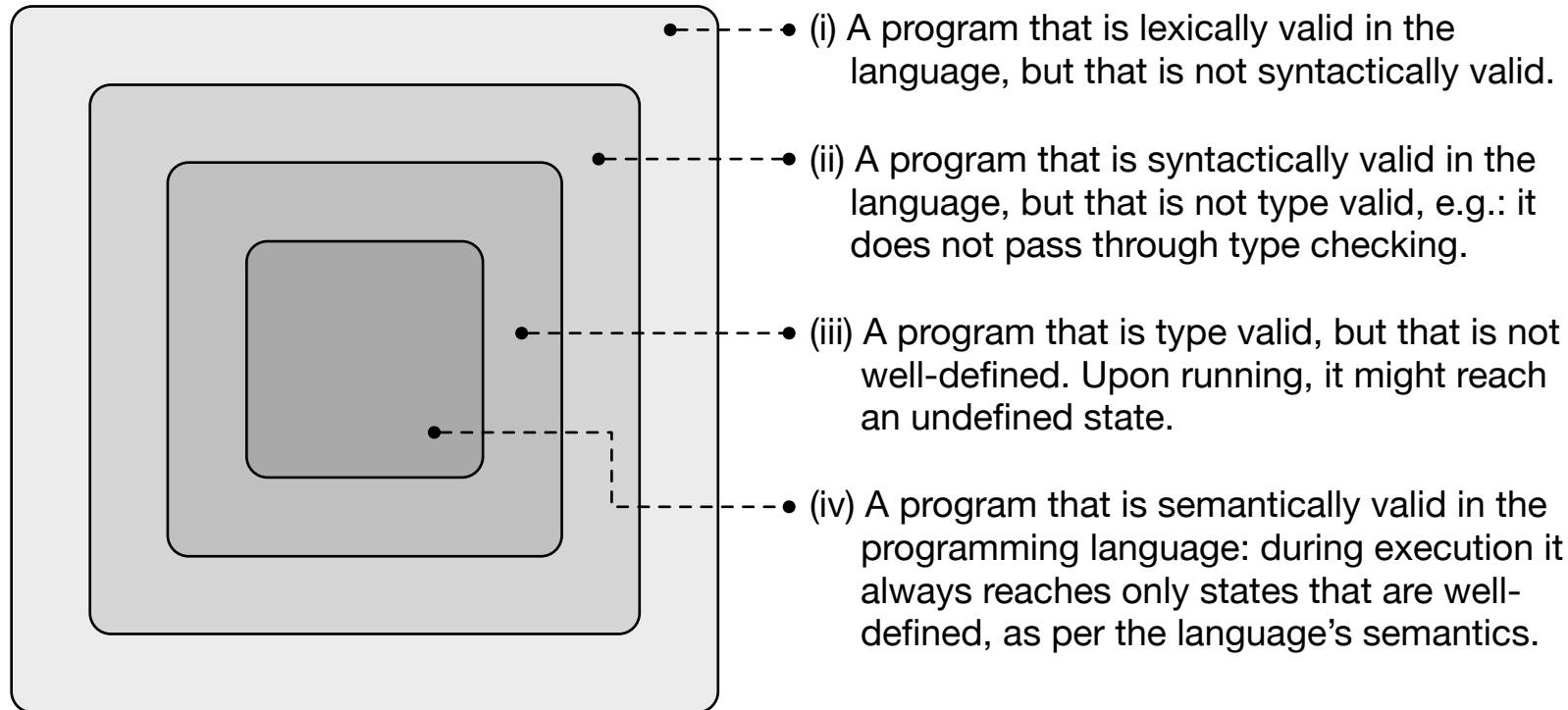


Figure 1: Classification of programs according to the different tests that they pass throughout the compilation process.

1. Can you give examples of C (or C++) programs in each one of the different sets above?
2. Can you give examples of Java (or Python) programs in each one of those sets?
3. Why are there programs in set-iii? Are they there due to bugs in the language implementation, or are they there by design?

