

iSchool OOP Bridge Exam Study Guide

The Object-Oriented Programming (OOP) bridge exam is offered either in Python or Java (student choice) and requires you to write two functions/methods. You may use either the command line or IDE of your choice as well as built-in Python help or Javadocs. **Use of generative AI is not allowed!**

You are expected to have a solid understanding of the following:

Primitives – int, char, float/double, boolean

Conditionals (if, if/else, if/else if/else) and logic (not, and, or)

Looping (for, while, for each)

Functions/Methods (calls, arguments, return types)

OOP concepts (encapsulation, inheritance, polymorphism)

Algorithms (sorting, searching, tree traversal, path finding in graphs)

Linear data structures (arrays, lists, stacks, queues)

Non-linear data structures (maps, priority queues, trees, graphs)