B2.1b

Programming fundamentals, part 2

CHAPTER ASSIGNMENT

Name _____ Class _____ No. _____ Date _____

Answer every question in the space given. Show your working. You may use the chapter page to help you.

Questions from *Computer Science for the IB Diploma*, 1st edition (2025), Paul Baumgarten, Ioana Ganea, Carl Turland (Hachette Learning), for classroom use.

Review Questions — Exception Handling (p. 335)

1. Explain how exceptions differ from errors.

2. Explain why it is important to handle exceptions in your code.

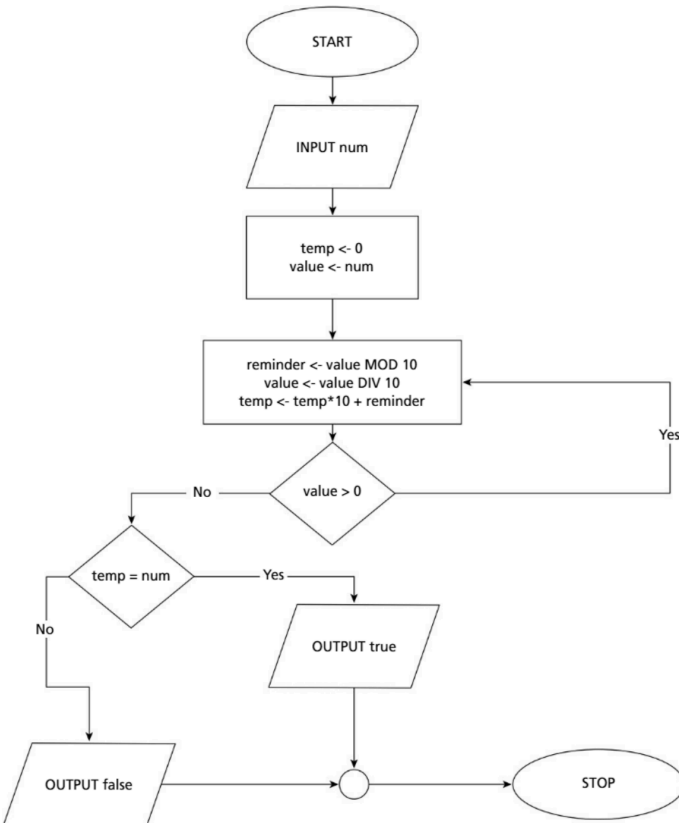
3. Identify some common types of exceptions.

4. Explain a scenario when a runtime error could occur.

5. Explain the risks of showing detailed exception messages to end users.

Activity — Trace Tables (pp. 337–338)

1 The following flowchart represents an algorithm.



(a) Copy and complete the trace table below for the value: 1221.

num	temp	value	reminder	value > 0	temp = num	output

(b) Copy and complete the trace table below for the value: 1231.

num	temp	value	reminder	value > 0	temp = num	output

(c) Identify the purpose of the algorithm represented by the flowchart above.

Review Questions — Debugging Techniques (p. 341)

1. Define the terms "exception" and "exception handling".

2. Identify three possible causes of an exception.

3. Outline three features that support the debugging of the code in an IDE.

End of assignment · Check your answers against the chapter at gurujazzy.com/subjects/ib-computer-science/b2-1-fundamentals-2/