

1.8 Documentation with Comments

Name: _____ Class: _____ Date: _____

Total: 9 marks

KEY WORDS comments 注释 • postcondition 后置条件 • precondition 前置条件
• compiler 编译器 • program 程序

Objective

Build the skills to answer exam questions on **documentation with comments**.

You must be able to:

- write single-line **comments** 注释 (//) and block comments (/* */)
- understand that comments are ignored by the compiler
- state a **precondition** 前置条件 and a **postcondition** 后置条件
- use comments to explain intent

1 Worked examples

Study these first. Each one shows the method for a question type used later.

■ Comments

// this is a single-line comment and /* this is a block comment */.
Comments are **ignored by the compiler** but help humans read the code.

■ Pre- and postconditions

- **Precondition** — what must be true **before** the code runs.
- **Postcondition** — what will be true **after** it runs.

Good comments explain **intent**, not obvious code.

2 Practice

2.1 State the two ways to write comments in Java.

[2]

2.2 State whether comments affect how the program runs.

[1]

2.3 Define a precondition.

[1]

3 Exam-style questions

3.1 A single-line comment in Java starts with

[1]

A	B
C	D

A /*

B //

C #

D <!--

3.2 Comments are

[1]

A	B
C	D

A run by the compiler

B ignored by the compiler

C errors

D program output

3.3 A method assumes its input number is positive.

(a) Name this kind of assumption.

[1]

(b) Name what is stated to be true after the method finishes.

[1]

(c) State one good purpose of a comment.

[1]