

## 4.6 Using Text Files

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Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

Total: 8 marks

**KEY WORDS** text file 文本文件 • scanner 扫描器

### Objective

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Build the skills to answer exam questions on **using text files**.

**You must be able to:**

- use the **Scanner** 扫描器 class to read data from a **text file** 文本文件
- open a file with a **File** object and read it line by line
- use methods such as `hasNextLine`, `nextLine`, and `nextInt`

### 1 Worked examples

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

#### ■ Reading a file with a Scanner

```
Scanner in = new Scanner(new File("data.txt"));
while (in.hasNextLine()) {
    String line = in.nextLine();
}
```

#### ■ Useful methods

- `hasNextLine()` — `true` while there is another line to read.
- `nextLine()` — reads and returns the next line.
- `nextInt()` — reads the next integer.

### 2 Practice

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**2.1** Name the class commonly used to read a text file.

[1]

**2.2** State what `hasNextLine()` returns.

[1]

**2.3** Name a method that reads one line of a file.

[1]

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### 3 Exam-style questions

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**3.1** To read a text file line by line, you loop while

[1]

|   |   |
|---|---|
| A | B |
| C | D |

**A** `hasNextLine()`

**B** `nextLine()`

**C** `length`

**D** `size()`

**3.2** `nextInt()` reads

[1]

|   |   |
|---|---|
| A | B |
| C | D |

**A** a whole line

**B** the next integer

**C** an entire file

**D** a boolean

**3.3** A program reads numbers from a file.

(a) Name the class used.

[1]

(b) Name a method that checks whether there is more input.

[1]

(c) Name a method that reads the next integer.

[1]