

4.6 Using Text Files

Name: _____ Class: _____ Date: _____

Total: 8 marks

KEY WORDS text file 文本文件 • scanner 扫描器

Objective

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

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

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]

3 Exam-style questions

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]