
Revision Sheet

IGCSE Computer Science · Unit 8 Programming

12 vocabulary items · 40 marks of exam questions (6 questions)

Part 1 · Vocabulary review (12 items). The terms this unit is examined on most. Mark it yourself from the answer key.

Section A · Chinese to English

Write the English word.

1.	<div></div>	[1]
2.	<div></div>	[1]
3.	<div></div>	[1]
4.	<div></div>	[1]
5.	<div></div>	[1]
6.	<div></div>	[1]
7.	<div></div>	[1]
8.	<div></div>	[1]
9.	<div></div>	[1]
10.	<div></div>	[1]
11.	<div></div>	[1]
12.	<div></div>	[1]

Part 2 · Exam questions (40 marks, 6 questions) begins on the next page. They are ordered easy to difficult and none of them has been set before.

15 An algorithm has been written in pseudocode to find and display the maximum and minimum values in an array of 1000 positive numbers. The array `List[]` starts at index 1

```
01 Max ← List[1]
02 Min ← List[1]
03 FOR Counter ← 2 TO 1000
04     IF List[Counter] < Max
05         THEN
06             Max ← List[Counter]
07     ENDIF
08     IF List[Count] < Min
09         THEN
10             Min ← List[Counter]
11     ENDWHILE
12 NEXT Counter
13 OUTPUT "Maximum value is ", Max
14 OUTPUT "Minimum value is ", Min
```

(a) Give a line number for each of these types of statement:

Assignment statement

Selection statement

Iteration statement [3]

(b) Identify the line numbers of the **three** errors in the pseudocode and suggest a correction for each error.

Error 1 line number

Correction
.....

Error 2 line number

Correction
.....

Error 3 line number

Correction
..... [3]

18 This pseudocode algorithm is intended to allow data for up to 50 people to be entered and stored in a two-dimensional (2D) array. The data is their last name, first name and the city in which they live.

```
01 DECLARE People : ARRAY[1:50, 1:3] OF REAL
02 DECLARE Count : INTEGER
03 DECLARE Response : CHAR
04 DECLARE Continue : BOOLEAN
05 FOR I ← 1 TO 50
06     FOR J ← 1 TO 3
07         People[I, J] ← ""
08     NEXT J
09 NEXT I
10 Count ← 100
11 Continue ← TRUE
12 CASE OF
13     OUTPUT "Enter the last name"
14     INPUT People[Count, 1]
15     OUTPUT "Enter the first name"
16     INPUT People[Count, 2]
17     OUTPUT "Enter the city"
18     INPUT People[Count, 3]
19     OUTPUT "Do you want to enter another name (Y or N)?"
20     INPUT Response
21     IF Response = 'N'
22         THEN
23             Continue ← FALSE
24         ELSE
25             Count ← Count + 1
26     ENDIF
27 UNTIL NOT Count
```

(a) Identify the line numbers of the **four** errors in the pseudocode and suggest corrections.

Error 1 line number

Correction

.....

Error 2 line number

Correction

.....

Error 3 line number

Correction

.....

Error 4 line number

Correction

.....

