



## Mark Scheme (Results)

November 2021

Pearson Edexcel International GCSE  
In Computer Science (4CP0/2B)  
Paper 02: Application of Computational Thinking

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## General Marking Guidance

- All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they mark the last.
- Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- Examiners should mark according to the mark scheme not according to their perception of where the grade boundaries may lie.
- There is no ceiling on achievement. All marks on the mark scheme should be used appropriately.
- All the marks on the mark scheme are designed to be awarded. Examiners should always award full marks if deserved, i.e. if the answer matches the mark scheme. Examiners should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme.
- Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- When examiners are in doubt regarding the application of the mark scheme to a candidate's response, the team leader must be consulted.
- Crossed out work should be marked UNLESS the candidate has replaced it with an alternative response.

## Theory

Question	mp	Answer	Additional Guidance	Mark
1 (a)	A1	<p><b>Award 1 mark for any of:</b></p> <ul style="list-style-type: none"> <li>• Comments (1)</li> <li>• Indentation (1)</li> <li>• Meaningful variable/constant/subprogram names (1)</li> <li>• White space (1)</li> </ul>		(1)

Question	mp	Answer	Additional Guidance	Mark																
1 (b)	B1 B2 B3	<p><b>Award 1 mark for each column:</b></p> <table border="1"> <thead> <tr> <th>Error description</th> <th>Logic</th> <th>Syntax</th> <th>Runtime</th> </tr> </thead> <tbody> <tr> <td>Divide by 0</td> <td></td> <td></td> <td>✓</td> </tr> <tr> <td>Use x instead of * multiply</td> <td></td> <td>✓</td> <td></td> </tr> <tr> <td>Subtract 10 from 2 instead of 2 from 10</td> <td>✓</td> <td></td> <td></td> </tr> </tbody> </table>	Error description	Logic	Syntax	Runtime	Divide by 0			✓	Use x instead of * multiply		✓		Subtract 10 from 2 instead of 2 from 10	✓				(3)
Error description	Logic	Syntax	Runtime																	
Divide by 0			✓																	
Use x instead of * multiply		✓																		
Subtract 10 from 2 instead of 2 from 10	✓																			

Question	mp	Answer	Additional Guidance	Mark
1 (c)	C1	<p><b>The only correct answer is D</b></p> <p><i>A is not correct because as it is a data structure</i></p> <p><i>B is not correct because as there is no arrow looping back to the condition</i></p> <p><i>C is not correct because as the flowchart does not include an operator</i></p>		(1)

Question	mp	Answer	Additional Guidance	Mark																																				
2 (b)	B1 B2 B3 B4	<p><b>Award up to 4 marks for a linked explanation such as:</b></p> <ul style="list-style-type: none"> <li>The list is not sorted (1) Juan should come after Elija if the list was sorted / Elija is compared with Juan (1), so the bottom half of the list would be discarded (1) after the first pass through the loop (1)</li> <li>Binary search works on a sorted list (1) because it uses divide and conquer (1) half the list discarded each pass through (1) based on comparison of search item with middle item (1)</li> </ul>		(4)																																				
Question	mp	Answer	Additional Guidance	Mark																																				
2 (c)	C1 C2 C3 C4 C5	<p><b>Award 1 mark for each of:</b></p> <p>Split into two sets of four (1)</p> <p>Split each set into two pairs (1)</p> <p>Split each pair into single elements (1)</p> <p>Merge elements into sorted pairs (1)</p> <p>Merge pairs into sorted sets (1)</p> <div style="text-align: center; margin: 10px 0;"> <table border="1" style="border-collapse: collapse; margin: auto;"> <tr> <td style="padding: 2px 5px;">9</td> <td style="padding: 2px 5px;">1</td> <td style="padding: 2px 5px;">7</td> <td style="padding: 2px 5px;">6</td> <td style="padding: 2px 5px;">3</td> <td style="padding: 2px 5px;">5</td> <td style="padding: 2px 5px;">2</td> <td style="padding: 2px 5px;">8</td> </tr> </table>   <table border="1" style="border-collapse: collapse; margin: auto;"> <tr> <td style="padding: 2px 5px;">9, 1, 7, 6</td> <td style="padding: 2px 5px;">3, 5, 2, 8</td> </tr> </table>   <table border="1" style="border-collapse: collapse; margin: auto;"> <tr> <td style="padding: 2px 5px;">9, 1</td> <td style="padding: 2px 5px;">7, 6</td> <td style="padding: 2px 5px;">3, 5</td> <td style="padding: 2px 5px;">2, 8</td> </tr> </table>   <table border="1" style="border-collapse: collapse; margin: auto;"> <tr> <td style="padding: 2px 5px;">9</td> <td style="padding: 2px 5px;">1</td> <td style="padding: 2px 5px;">7</td> <td style="padding: 2px 5px;">6</td> <td style="padding: 2px 5px;">3</td> <td style="padding: 2px 5px;">5</td> <td style="padding: 2px 5px;">2</td> <td style="padding: 2px 5px;">8</td> </tr> </table>   <table border="1" style="border-collapse: collapse; margin: auto;"> <tr> <td style="padding: 2px 5px;">1, 9</td> <td style="padding: 2px 5px;">6, 7</td> <td style="padding: 2px 5px;">3, 5</td> <td style="padding: 2px 5px;">2, 8</td> </tr> </table>   <table border="1" style="border-collapse: collapse; margin: auto;"> <tr> <td style="padding: 2px 5px;">1 6, 7, 9</td> <td style="padding: 2px 5px;">2, 3, 5, 8</td> </tr> </table>   <table border="1" style="border-collapse: collapse; margin: auto;"> <tr> <td style="padding: 2px 5px;">1</td> <td style="padding: 2px 5px;">2</td> <td style="padding: 2px 5px;">3</td> <td style="padding: 2px 5px;">5</td> <td style="padding: 2px 5px;">6</td> <td style="padding: 2px 5px;">7</td> <td style="padding: 2px 5px;">8</td> <td style="padding: 2px 5px;">9</td> </tr> </table> </div>	9	1	7	6	3	5	2	8	9, 1, 7, 6	3, 5, 2, 8	9, 1	7, 6	3, 5	2, 8	9	1	7	6	3	5	2	8	1, 9	6, 7	3, 5	2, 8	1 6, 7, 9	2, 3, 5, 8	1	2	3	5	6	7	8	9	Allow step at C3 to be implied	(5)
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Question	mp	Answer	Additional Guidance	Mark					
3 (a) (i)	A1	C# and Python monthNumber/monthsAndDays/count/found (1) Java monthNumber/monthsAndDays/count/found/input		(1)					
3 (a) (ii)	A2	monthsAndDays (1)		(1)					
3 (a) (iii)	A3	C# <ul style="list-style-type: none"> <li>WriteLine, ToString, ToInt32, ReadLine</li> </ul> Java <ul style="list-style-type: none"> <li>Print, ParseInt, nextLine, ToString, Equals</li> </ul> Python <ul style="list-style-type: none"> <li>print/len/int/input (1)</li> </ul>		(1)					
3 (a) (iv)	A4	Display/showMonthNameAndDays (1)		(1)					
3 (a) (v)	A5	pMonth (1)		(1)					
3 (a) (vi)	A6 A7	<b>Award 1 mark for each of:</b> <table border="1" data-bbox="624 863 1290 984"> <thead> <tr> <th>Type of test data</th> <th>Test data</th> </tr> </thead> <tbody> <tr> <td>Boundary (1)</td> <td>1</td> </tr> <tr> <td>Erroneous (1)</td> <td>15</td> </tr> </tbody> </table>		Type of test data	Test data	Boundary (1)	1	Erroneous (1)	15
Type of test data	Test data								
Boundary (1)	1								
Erroneous (1)	15								

Question	mp	Answer	Additional Guidance	Mark
3 (b)	B1 B2	<b>Award up to 2 marks for a linked explanation such as:</b> <ul style="list-style-type: none"> <li>A library program would not know the names of the calling program's variables in advance (1) meaning it would not be a reusable solution (1)</li> <li>(Using parameters) enables reusable solutions (1) using different data values/arguments (1)</li> <li>Using parameters uses less memory / uses memory more efficiently (1) because it avoids the use of global variables / because the memory is freed after the subprogram is finished (1)</li> </ul>		(2)

Question	mp	Answer	Additional Guidance	Mark
4 (b)	B1 B2	<b>Award up to 2 marks for a linked description such as:</b> <ul style="list-style-type: none"><li>To check to see if a word is the same when it is reversed / is a palindrome (1) and output an appropriate message / repaper is the same when reversed (1)</li></ul>		(2)

## Coding

Question	mp	Answer	Additional Guidance	Mark
1 (d)		<b>Award 1 mark for each of:</b>		(3)
	D1	= changed to == (1)		
	D2	Condition changed to less than / final two print statements swapped (1)		
	D3	else changed to else (1)		
Code examples				
C#		<pre> if (number1 == number2) {     Console.WriteLine("The numbers are equal"); } else if (number1 &lt; number2) {     Console.WriteLine("The highest number is " + number2 + " and the lowest number is " + number1); } else </pre>		
Java		<pre> if (number1 == number2) {     System.out.print("Numbers are equal"); } else if (number1 &lt; number2) {     System.out.print("The highest number is " + number2 + " and the lowest number is " + number1); } else </pre>		
Python		<pre> if number1 == number2:     print("Numbers are equal") elif number1 &lt; number2:     print("The highest number is", number2, "and the lowest number is", number1) else: </pre>		



Question	mp	Answer	Additional Guidance	Mark
1 (e)	<b>Award 3 marks for:</b>			
	E1	Prompt for a number to be input (1)		
	E2	Input stored in an integer variable (1)		
	E3	Loop used (1)		
	E4	Loop iterates only for the values 1 – 12 (1)		
	E5	Display is correct when program executes (1)		
Code examples				
C#	<pre>// Print prompt and get number from user Console.Write("Enter the number: "); int num = Convert.ToInt32(Console.ReadLine());  // Create loop to display the table for (int count = 1; count &lt;= 12; count++) {     Console.WriteLine(count + " x " + num + " is " + count * num); } Console.ReadLine();</pre>			
Java	<pre>// Print prompt and get number from user Scanner input = new Scanner(System.in); System.out.print("Enter the number "); int num = input.nextInt();  // Create loop to display the table for (int count = 1; count &lt;=12; count++) {     System.out.println(count + " x " + num + " is " + count * num); }</pre>			

(5)

Python

```
# Print prompt and get number from user
num = int(input("Enter the number: "))

# Create loop to display the table
for count in range(1, 13):
    print(count, "x" , num , "is" , count * num)
```

Question	mp		Additional Guidance	Mark
2 (a)	<b>Award one mark for each of:</b>		Logic of algorithm must be followed as set out. Alternatives must address each point. Do not penalise candidates who attempt more than the stated requirements. Do not penalise spelling mistakes in the input message.	(10)
	A1	Input as an integer (1)		
	A2	Loop with correct conditions start <= end and not found (1)		
	A3	Use of correct symbol for integer division (in conversion of DIV) or type coercion (1)		
	A4	Check to see if number in middle matches item (1)		
	A5	Set found to true (1)		
	A6	Check to see if item is less than number in middle (1)		
	A7	Set end to middle - 1 (1)		
	A8	else - set start to middle + 1 (1)		
	A9	count incremented by 1 (1)		
A10	Program execution is fully correct (1)			
Code examples				

C#

```
Console.WriteLine("What is the number to find? ");
int item = Convert.ToInt32(Console.ReadLine());

while (start <= end && !found)
{
    middle = (start + end) / 2;
    if (numberList[middle] == item)
    {
        found = true;
    }
    else
    {
        if (item < numberList[middle])
        {
            end = middle - 1;
        }
        else
        {
            start = middle + 1;
        }
    }
    count++;
}
```

Java

```
Scanner input = new Scanner(System.in);
System.out.print("What is the number to find? ");
int item = Integer.parseInt(input.nextLine());

while (start <= end && !found)
{
    middle = (start + end) / 2;
    if (numberList[middle] == item)
    {
        found = true;
    }
    else
    {
        if (item < numberList[middle])
        {
            end = middle - 1;
        }
        else
        {
            start = middle + 1;
        }
    }
    count ++;
}
```

Python

```
item = int(input("What is the number to find? "))
while start <= end and not found:
    middle = (start + end) // 2
    if numberList[middle] == item:
        found = True
    else:
        if item < numberList[middle]:
            end = middle - 1
        else:
            start = middle + 1
    count = count + 1
```

Question	mp	Answer	Additional Guidance	Mark
3 (c)	<b>Award 1 mark for each of:</b>			
	C1	Condition to check whether the year exactly divides by 4 or equivalent condition (1)		
	C2	Condition to check whether year exactly divides by 400 or equivalent condition (1)		
	C3	Condition to check whether year does not exactly divide by 100 or equivalent condition (1)		
	C4	Correct message for at least one of the conditions (1)		
	C5	Program executes and produces the correct output (1)		
	C6	Efficient solution (1)		
				(6)
Code examples				
C#	<pre> if (year % 400 == 0) {     Console.WriteLine(year + " is a leap year"); } else if (year % 4 == 0 &amp;&amp; year % 100 !=0) {     Console.WriteLine(year + " is a leap year"); } else {     Console.WriteLine(year + " is not a leap year"); } // End of main program </pre>			
Java	<pre> if (year % 400 == 0) {     System.out.print(year + " is a leap year"); } else if (year % 4 == 0 &amp;&amp; year % 100 !=0) {     System.out.print(year + " is a leap year"); } else {     System.out.print(year + " is not a leap year"); } </pre>			

Python

```
if year % 400 == 0:  
    print(year, "is a leap year")  
elif year % 4 == 0 and year % 100 != 0:  
    print(year, "is a leap year")  
else:  
    print(year, "is not a leap year")
```

Question	mp	Answer	Additional Guidance	Mark
4 (a)	<b>Award one mark for each of:</b>			(11)
	<b>Validation</b>			
	A1	Suitable input prompt and storing it in binaryPattern (1)		
	A2	Length of binary pattern validated as 8 (1)		
	A3	Loop used to check the length of binary pattern (1)		
	<b>Binary to denary</b>			
	A4	Loop through each digit in the binary pattern (1)		
	A5	Correct conversion of at least one binary digit to relevant placeholder (1)		
	A6	Attempt at running total using denaryNumber (1)		
	A7	Correct running total using denaryNumber (1)		
	A8	Print statement includes the binary pattern and the denary number (1)		
	A9	Print statement outside of conversion loop (1)		
A10	Comment explains how conversion works (1)			
A11	Program executes correctly for any binary pattern that is exactly 8 characters long only (1)			
Code examples				



C#	<pre>while (binaryPattern.Length != 8) {     Console.WriteLine("Enter an 8 digit binary number to convert to denary ");     binaryPattern = Console.ReadLine(); }  foreach (char digit in binaryPattern) {     if (digit == '1')     {         denaryNumber += denaryPlaceholders[count] * 1;     }     count++; }  Console.WriteLine(binaryPattern + " converted to denary is " + denaryNumber); Console.ReadLine();</pre>	
Java	<pre>while (binaryPattern.length() != 8) {     Scanner input = new Scanner(System.in);     System.out.print("Enter an 8 digit binary number to convert to denary ");     binaryPattern = input.next(); }  for (char digit : binaryPattern.toCharArray()) {     if (digit == '1')     {         denaryNumber += denaryPlaceholders[count] * 1;     }     count ++; }  System.out.print(binaryPattern + " converted to denary is " + denaryNumber);</pre>	

Python

```
while len(binaryPattern) != 8:
    binaryPattern = input("Enter an 8 digit binary number to convert to denary: ")

for digit in binaryPattern:
    if digit == "1":
        denaryNumber = denaryNumber + denaryPlaceholders[count] * 1
    count = count + 1

print(binaryPattern, "converted to denary is", denaryNumber)
```

For Q5, the first 11 marks are for coding that matches requirements of task. The remaining 9 marks should be allocated on a best fit

Question	mp	Answer	Additional Guidance	Mark
5	A1	At least three variables initialised appropriately		(1)
	A2	Word input		(1)
	A3	Program repeats until 1 is input		(1)
	A4	Loop through each word in the array		(1)
		Words that begin with the same letter		
	A5	Check to see if the first letter of the input word matches the first letter of at least one word in the array		(1)
	A6	The number of words that begin with the same letter displayed		(1)
		Words that contain the input word		
	A7	Check to see if the word contains the input word		(1)
	A8	Number of letters in the word calculated		(1)
	A9	At least one word from the array that contains the input word displayed		(1)
A10	The number of words that contain the input word displayed		(1)	
A11	Identification of the longest word or the shortest word		(1)	

Band 1 (1-3 marks)	Band 2 (4-6 marks)	Band 3 (7-9 marks)	Mark
Little attempt to decompose into component parts	Some attempt to decompose into component parts	The problem has been decomposed into component parts	
Some parts of the logic are clear and appropriate to the problem	Most parts of the logic are clear and mostly appropriate to the problem	The logic is clear and appropriate to the problem	
Some appropriate use and manipulation of data types, variables, data structures and program constructs	The use and manipulation of data types, variables and data structures and program constructs is mostly appropriate	The use and manipulation of data types, variables and data structures and program constructs is appropriate	
Parts of the code are clear and readable	Code is mostly clear and readable	Code is clear and readable	
Finished program will not be flexible enough with other data sets or input	Finished program will function with some but not all other data sets or input	Finished program could be used with other data sets or input	
The program meets some of the given requirements	The program meets most of the given requirements	The program fully meets the given requirements	
			(9)

## Code examples

C#

```
14 // Add your code here
15 string inputWord = "";
16
17 while (inputWord != "1")
18 {
19     int shortest = 5000;
20     int longest = 0;
21     String shortestWord = "";
22     String longestWord = "";
23
24     Console.WriteLine("Enter a word or 1 to exit ");
25     inputWord = Console.ReadLine();
26
27     if (inputWord != "1")
28     {
29         int count = 0;
30
31         foreach (String word in wordArray)
32         {
33             if(word[0] == inputWord[0])
34             {
35                 Console.WriteLine(word);
36                 count ++;
37             }
38         } // End of Loop
39
40         Console.WriteLine(count + " word(s) beginning with "+ inputWord[0]);
41         Console.WriteLine("-----");
42
43         count = 0;
44
45         foreach (String word in wordArray)
46         {
47             if(word.Contains(inputWord))
48             {
49                 count ++;
50                 Console.WriteLine(word);
51
52                 int length = word.Length;
53
54                 if (longest < length)
```

```

55     {
56         longest = length;
57         longestWord = word;
58     }
59
60     if (shortest > length)
61     {
62         shortest = length;
63         shortestWord = word;
64     }
65     } // end of checking word
66 } // End of for Loop
67
68 // Print the number of words, the number of characters in the longest and
69 // shortest word, the longest and the shortest word
70
71 if (count > 0)
72 {
73     Console.WriteLine(count + " word(s) with " + inputWord + " in them");
74     Console.WriteLine("The longest word has " + longest + " characters");
75     Console.WriteLine("The shortest word has " + shortest + " characters");
76     Console.WriteLine("The longest word is " + longestWord + " characters");
77     Console.WriteLine("The shortest word is " + shortestWord + " characters");
78     Console.WriteLine("-----");
79 }
80 else
81 {
82     Console.WriteLine("There were 0 words that had all the letters from " + inputWord + " in them");
83     Console.WriteLine("-----");
84 } // End of printing words
85 } // End of check
86 } // End of while loop

```

Java

```
13 // Add your code here
14 Scanner input = new Scanner(System.in);
15 String inputWord = "";
16
17 // While there is a word run the program
18 while (!inputWord.equals("1")) {
19
20     int shortest = 5000;
21     int longest = 0;
22     String shortestWord = "";
23     String longestWord = "";
24
25     System.out.println("Enter a word or 1 to exit ");
26     System.out.println("-----");
27     inputWord = input.nextLine();
28     if (!inputWord.equals("1")){
29         // Find words that begin with the same letter as the input word
30         int count = 0;
31
32         // Get each word in the array
33         for (String word: wordArray){
34
35             // If the first character of the word is the same as the first character of
36             // the input word then print the word
37             if (word.charAt(0) == inputWord.charAt(0)){
38                 System.out.println(word);
39                 count ++;
40             }
41         } // End of for Loop
42
43         // Print the total number of words that begin with the same letter
44         System.out.println(count + " word(s) beginning with " + inputWord.charAt(0));
45         System.out.println("-----");
46
47         // Find words that contain the input word
48         count = 0;
49
50         // Get each word in the array
51         for (String word: wordArray){
52             // Check to see if the word contains the inputWord
53             if (word.contains(inputWord)){
54                 count ++;
55                 System.out.println(word);
56
57                 // Set the length of the word
58                 int length = word.length();
59
```

```
60 // If the length is longer than the current longest replace it and the longestWord
61 if (longest < length) {
62     longest = length;
63     longestWord = word;
64 }
65
66 // If the length is shorter than the shortest replace it and the shortestWord
67 if (shortest > length){
68     shortest = length;
69     shortestWord = word;
70 }
71 } // End of checking word
72 } // End of for Loop
73
74 // Print the number of words, the number of characters in the longest and
75 // shortest word, the longest and the shortest word
76 if( count > 0){
77     System.out.println(count + " word(s) with " + inputWord + " in them");
78     System.out.println("The longest word has " + longest + " characters");
79     System.out.println("The shortest word has " + shortest + " characters");
80     System.out.println("The longest word is " + longestWord + " characters");
81     System.out.println("The shortest word is " + shortestWord + " characters");
82     System.out.println("-----");
83 } else {
84     System.out.println("There were 0 words that had all the letters from " + inputWord + " in them");
85     System.out.println("-----");
86 } // End of printing words
87 }
88 } // End of while Loop
```

Python

```
13 # While there is a word run the program
14 while inputWord != "1":
15
16     shortest = 5000
17     longest = 0
18     shortestWord = ""
19     longestWord = ""
20
21     inputWord = input("Enter a word or 1 to exit: ")
22     print("-----")
23
24     if inputWord != "1":
25         # Find words that begin with the same letter as the input word
26         count = 0
27         # Get each word in the array
28         for word in wordArray:
29             # If the first character of the word is the same as the first character of
30             # the input word then print the word
31             if word[0] == inputWord[0]:
32                 print(word)
33                 count = count + 1
34
35         # Print the total number of words that begin with the same letter
36         print("\n",count,"word(s) beginning with",inputWord[0])
37         print("-----")
38
39         # Find words that contain the input word
40         count = 0
41         # Get each word in the array
42         for word in wordArray:
43             # Check to see if the word contains the inputWord
44             if inputWord in word:
45                 count = count + 1
46                 print(word)
47                 # Set the length of the word
48                 length = len(word)
49
50                 # If the length is longer than the current longest replace it and the LongestWord
51                 if longest < length:
52                     longest = length
53                     longestWord = word
54
55                 # If the length is shorter than the shortest replace it and the shortestWord
56                 if shortest > length:
57                     shortest = length
58                     shortestWord = word
```



```
59
60     # Print the number of words, the number of characters in the longest and
61     # shortest word, the longest and the shortest word
62     if count > 0:
63         print("\n",count,"word(s) with",inputWord,"in them")
64         print("The longest word has",longest,"letters")
65         print("The shortest word has",shortest,"letters")
66         print("The longest word is",longestWord)
67         print("The shortest word is",shortestWord)
68         print("-----")
69     else:
70         print("There were 0 words with all the letters from",inputWord,"in them")
71     # -----
72
73     # End the program when there are no more words
74     print("End of program")
```

