

Paper reference 1CP2/01
Pearson Edexcel
Level 1/Level 2 GCSE (9 – 1)

Computer Science
PAPER 1: Principles of Computer Science

Wednesday 15 May 2024 – Afternoon
Time: 1 hour 30 minutes

Data Book

THIS DATA BOOK MUST BE RETURNED WITH THE QUESTION PAPER AT THE END OF THE EXAMINATION.

Surname					
Other names					
Centre Number					
Candidate Number					

INSTRUCTIONS

There may be spare copies of **SOME** diagrams in case you need them.

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Spare copies

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```
1  # -----
2  # Global variables
3  # -----
4  theColours = ["Green", "Blue", "Yellow", "Red", "Purple"]
5  colour = " "
6
7  # -----
8  # Main program
9  # -----
10
11 for item in theColours:
12     print (item)
13
14 colour = input ("Enter a colour: ")
15 while (colour != " "):
16     if (colour == "Green"):
17         print ("Green is my favourite colour")
18     else:
19         print (colour + " is a good colour")
20
21     colour = input ("Enter a colour: ")
```

Question 1 (f) (i)

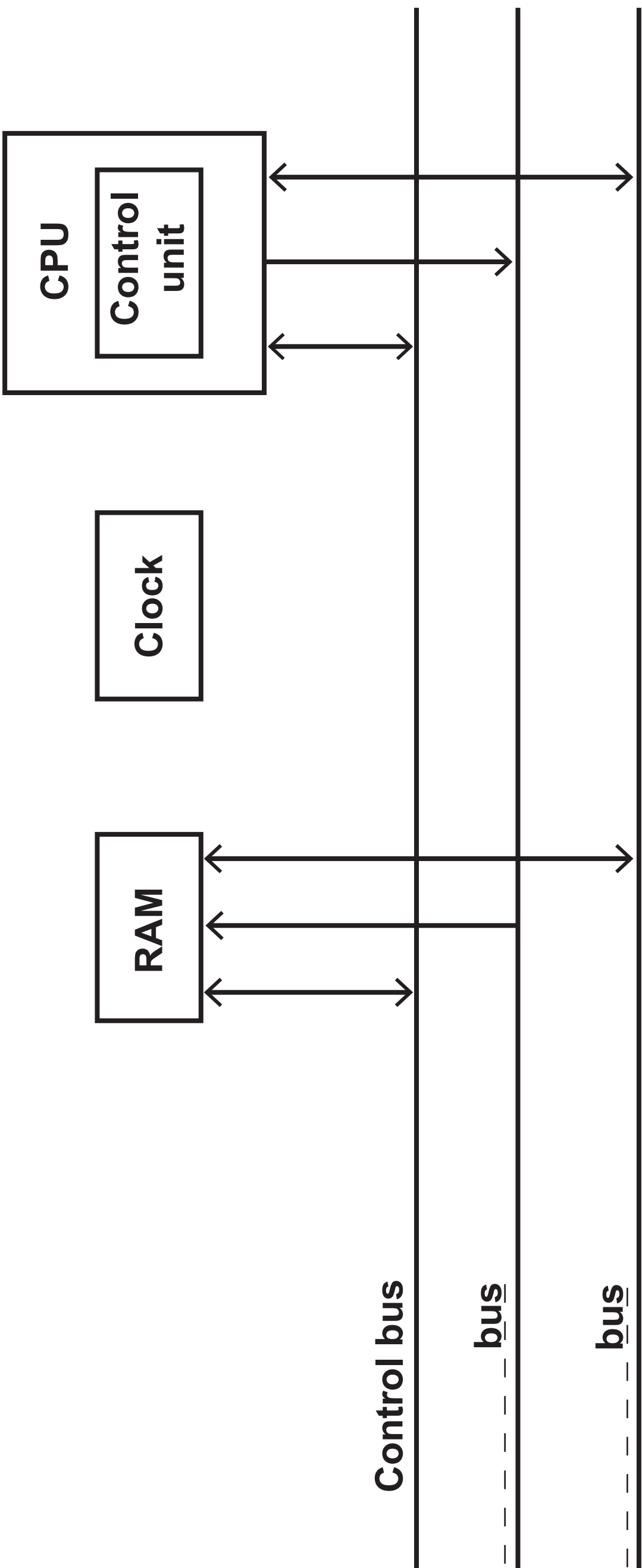
ALGORITHM TYPE	CHARACTERISTIC	ALGORITHM NAME
Search	Is a divide and conquer algorithm	
Sort	Is NOT a divide and conquer algorithm	

Question 2 (d) (i)

BINARY PATTERN	SHIFT	8–BIT BINARY RESULT
1010 0011	Logical shift left by 3	
1100 1010	Arithmetic shift right by 2	



Question 4 (e)



Question 5 (b)

INTELLECTUAL PROPERTY	METHOD OF PROTECTION
A hardware invention	
An advertising slogan	

Question 5 (d)

Some flowchart symbols

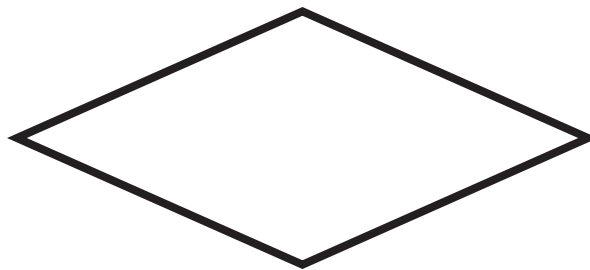
Terminator



Process



Decision



Input / Output



You may not need to use all the flowchart symbols.

Question 5 (d)

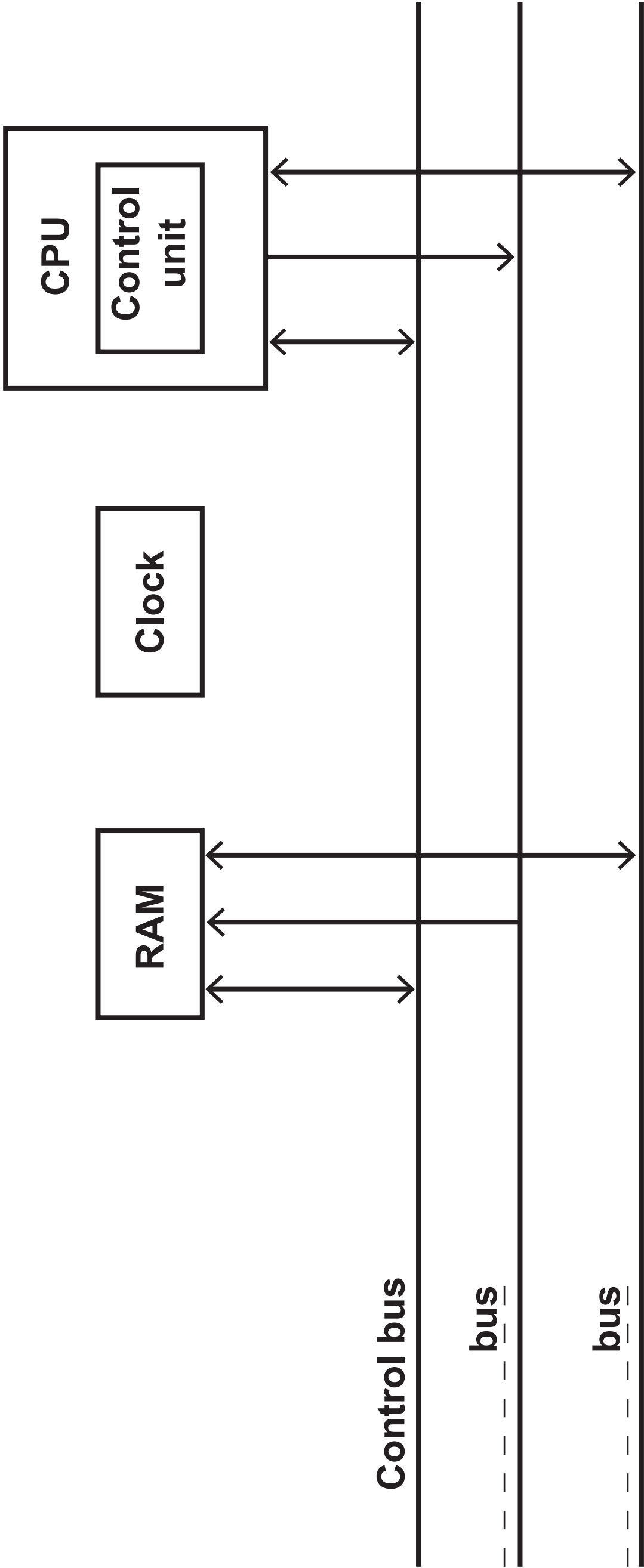
Space for flowchart

ALGORITHM TYPE	CHARACTERISTIC	ALGORITHM NAME
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Question 2 (d)

BINARY PATTERN	SHIFT	8–BIT BINARY RESULT
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Question 4 (e)



Question 5 (b)

INTELLECTUAL PROPERTY	METHOD OF PROTECTION
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Question 5 (d)

Space for flowchart spare copy