

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 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)

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

Question 2 (d)

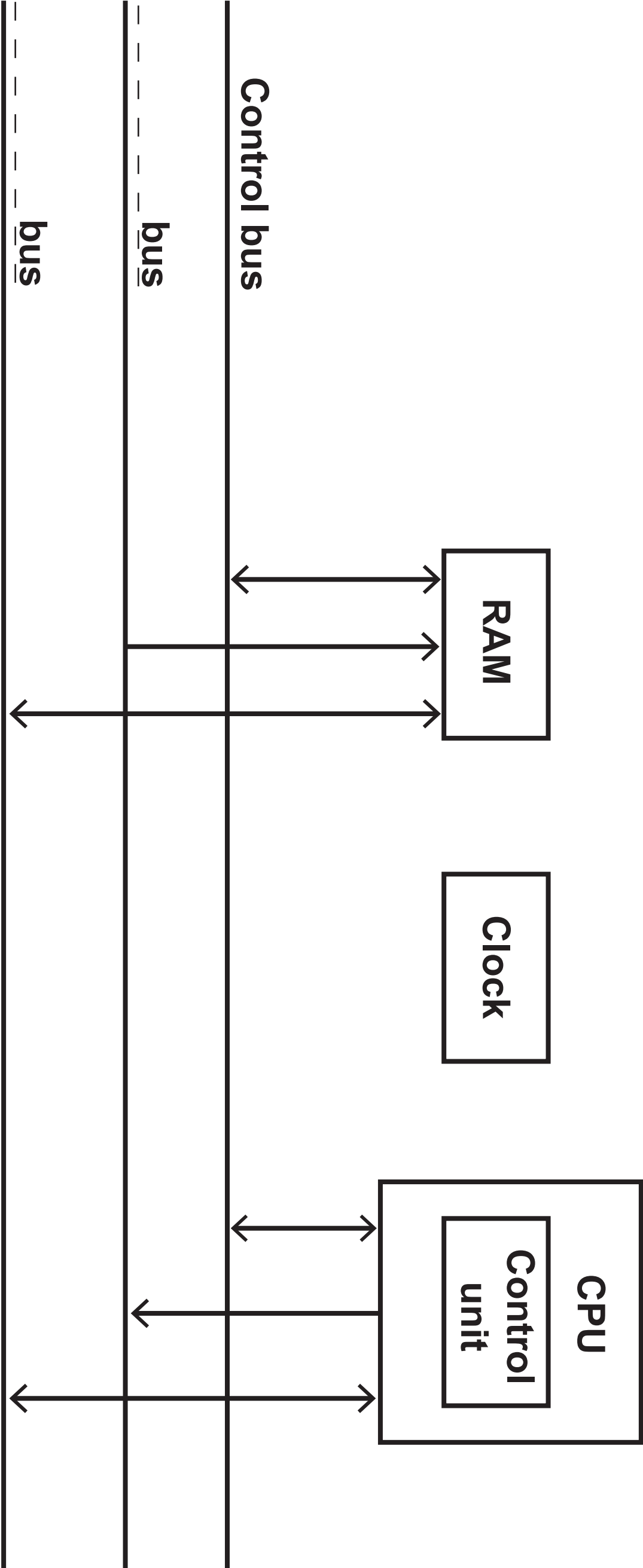
BINARY PATTERN	SHIFT	8–BIT BINARY RESULT
1010 0011	Logical shift left by 3	
1100 1010	Arithmetic shift right by 2	







Question 4 (e)



Question 5 (b)

INTELLECTUAL PROPERTY	METHOD OF PROTECTION
A hardware invention	
An advertising slogan	



Question 5 (d)

Some flowchart symbols

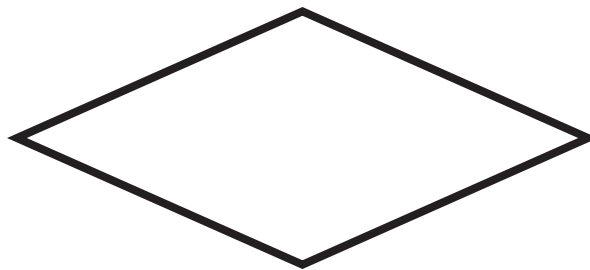
**Terminator**



**Process**



**Decision**



**Input / Output**



**You may not need to use all the flowchart symbols.**

Question 5 (d)

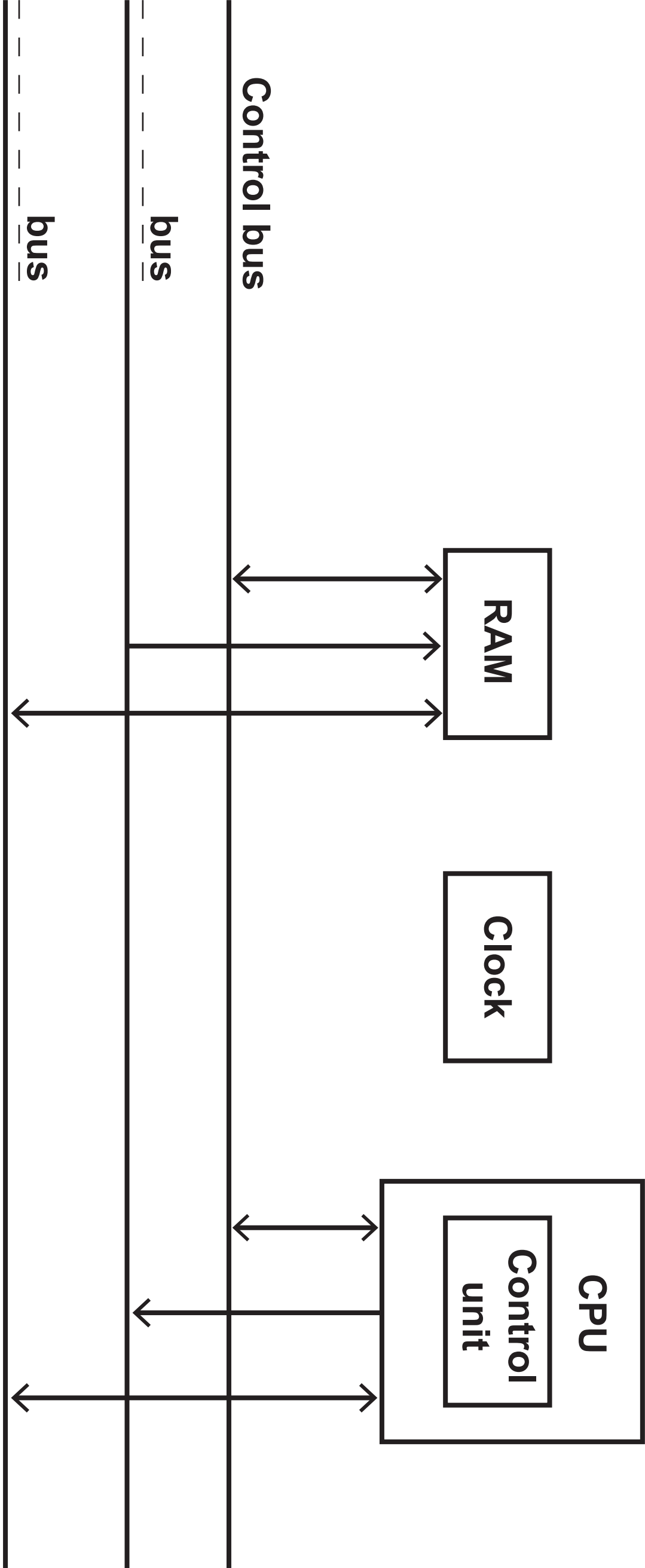
Space for flowchart

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