

BIRKBECK, UNIVERSITY OF LONDON

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# Computer Systems Coursework1

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## Answers

1. First

- (a) LOAD R1, a  
LOAD R2, b  
ADD R1, a, b
- (b) other point
- (c) The table 1 is an example of referenced L<sup>A</sup>T<sub>E</sub>X elements.

	IF	ID	IW	RR	EX	WB	Comments
1	2	3	4	5	6	7	This is a long explanation
2	7	78	5415	5	6	7	
3	545	778	7507	5	6	7	
4	545	18744	7560				
5	88	788	6344				
6	88	788	6344				

Table 1: Table to test captions and labels

2.  $15 \text{ ns} = 15 \times 10^{-9} \text{ seconds}$   
 $85 \text{ ns} = 85 \times 10^{-9} \text{ seconds}$   
 $10 \text{ ms} = 1 \times 10^{-2} \text{ seconds}$

Probability of being in main memory is 0.7 and cache hit ratio is 0.4.

Therefore time to load is:

$$0.7 \times 1 \times 10^{-2} + 0.3 \times (0.4 \times 15 \times 10^{-9} + 0.6 \times 85 \times 10^{-9})$$