

Xi'an Jiaotong-Liverpool University

西交利物浦大学

MODULE CODE	EXAMINER	DEPARTMENT	TEL
CPT101	STEVEN GUAN	COMPUTING	1501

1st SEMESTER 2023/24 RESIT EXAMINATIONS

BACHELOR DEGREE – Year 2

COMPUTER SYSTEMS

TIME ALLOWED: 2 Hours

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**INSTRUCTIONS TO CANDIDATES**

- 1、 This is an open book exam.
- 2、 Answer all questions.
- 3、 Answers should be written in the answer booklet(s) provided.
- 4、 No calculator is allowed during the examination.
- 5、 Only answers in English are accepted.

**THIS PAPER MUST NOT BE REMOVED FROM THE EXAM HALL.**

- 26** Drag-and-drop (for online test) or write the sequence number (for on-site test) of the assembly code to form a program that finds the **sum of even** numbers in an array of **6 integers** and stores this value in the `eax` register. Note that your sequence must absolutely match the line numbers to the left-most column of the table. The answers for Lines 1,2, and 4 have been provided. Complete the rest.

	Correct Sequence	Pick From Here	
Line 1	1	1	<code>lea esi, myArray</code>
Line 2	2	2	<code>mov eax, 0</code>
Line 3		3	<code>add eax, [esi]</code>
Line 4	4	4	<code>L1: test [esi], 01H</code>
Line 5		5	<code>inc eax</code>
Line 6		6	<code>L2: inc, esi</code>
Line 7		7	<code>add eax, [esi +4]</code>
Line 8		8	<code>L2: add esi, 4</code>
		9	<code>jnz L2</code>
		10	<code>jz L2</code>
		11	<code>loop L1</code>
		12	<code>loop L2</code>
		13	<code>mov ecx, 5</code>
		14	<code>mov ecx, 6</code>

----- End of Paper -----