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

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	lea esi, myArray
Line 2	2	2	mov eax, 0
Line 3	14	3	add eax, [esi]
Line 4	4	4	L1: test [esi], 01H
Line 5	9	5	inc eax
Line 6	3	6	L2: inc, esi
Line 7	8	7	add eax, [esi +4]
Line 8	11	8	L2: add esi, 4
		9	jnz L2
		10	jz L2
		11	loop L1
		12	loop L2
		13	mov ecx, 5
		14	mov ecx, 6

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