handout w05b	Cheng Tan, CS3650	2/7/24. 11:27 AM	handout w05b	Cheng Tan, CS3650	2/7/24. 11:27 AM
1 1. E: 2 and : 3 abst 4 unde 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 47 48 49 50 51 52 53 54 56 57	<pre>xample to illustrate interleavings: say that thread A executes f() thread B executes g(). (Here, we are using the term "thread" ractly. This example applies to any of the approaches that fall r the word "thread".) a. [this is pseudocode] int x; int main(int argc, char** argv) { tid tid1 = thread_create(f, NULL); tid tid2 = thread_create(g, NULL); thread_join(tid1); thread_join(tid2); printf("%d\n", x); } void f() { x = 1; thread_exit(); } void g() { x = 2; thread_exit(); } What are possible values of x after A has executed f() and B has executed g()? In other words, what are possible outputs of the program above? b. Same question as above, but f() and g() are now defined as follows int y = 12; f() { x = y + 1; } g() { y = y * 2; } What are the possible values of x? </pre>	Page 1 of 2	58 59 60 2. Li 61 62 5 63 64 65] 66 67 L 68 69 i 70 71 72 73 74] 75 76 W 77 1 78 79 1 80 1 81 1 82 1 83 84 85	<pre>inked list example struct List_elem { int data; struct List_elem* next; ; .ist_elem* head = 0; Insert(int data) { List_elem* 1 = new List_elem; l->data = data; l->next = head; head = l; . thread 1: l->next = head thread 2: l->next = head thread 2: l->next = head thread 1: head = l; </pre>	Page 2 of 2