	10052107 打電
Ch 5 Quiz	着 7 3 A
Multiple Choice Questions (10%)	7
1. Which of the following is not a means of repeating a block of instructions?	0 11
A Pretest loop B. Posttest loop C. Recursion D. Assignment statement	(1/1
12. The insertion sort algorithm is an example of an algorithm in which of the following classes?	1/4
A $\Theta(\log_2 n)$ B. $\Theta(n)$ C. $\Theta(n \log_2 n)$ D $\Theta(n^2)$	1
The binary search algorithm is an example of an algorithm in which of the following classes?	
$\Theta(\log_2 n) \ B. \Theta(n) \ C. \Theta(n \log_2 n) \ D. \Theta(n^2)$	
A. Pseudocode B. Iterative structures C. Assertions D. Recursion	
5. Which of the following is a loop invariant at the point at which the test for termination is perfect.	rmed in the
Following Law arman and	-6 -4
D X = 3	时要件
A. X > 5 B. X < 5 C. X ≥ 5 D X ≤ 5 THE+ = 5, B.	在没Jup!
Fill-in-the-blank/Short-answer Questions (90%)	
1. What sequence of values will be printed when the following instructions are executed? (8%)	
X = S if X < 7 print 6 b. Z	
elsei	
print 4 My 6 6	
print 3	
else: print(2)	
2. What sequence of values will be printed when the following instructions are executed? (8%)	
X = 5 (x < 1): Ans > 5 677 \$ 3	
print(x)	
$\begin{array}{c} x = x + 1 \\ print(x) \end{array}$	
while $(x > 2)$: print (x)	
X = X - 2	
3	
3. At most, how many entries in a list of 5000 names will be interrogated when using binary search	algorithm? (8%)
2K = 5000, 2"=104, 2"=1011, 2" = 1111 2" = 5W	421
4. At most, how many entries in a list of 5000 names will be interrogated when using sequential se-	arch algorithm? (8%)
ran 4 Area from	
Which of the sequential or binary search algorithms would find the name Kelly in the list more	quickly?. (8%)
John, Kelly, Lewis, Maurice, Nathan, Oliver, Pat, Quincy, Roger, Stan, Tom	
And a second control of the second control o	
Ans: Sequential Ans Sequentia	
6. Suppose the binary search algorithm was being used to search for the entry Tom in the list	
Nathan, Oliver, Pat, Quincy, Rodger, Stap, Com	
A. What would be the first entry in the list to be considered? B. What would be the second entry in the list to be considered? (5° 0) (5° 0)	
B. What would be the second entry in the list to be considered? Sau (5° o)	