	12年
Ch 5 Quiz	查I3A
Multiple Choice Questions (10%)	7 1
1 Which of the following is not a means of repeating a block of instructions?	0 11
A Prefest loop B. Posttest loop C. Recursion D. Assignment statement	\ 1///
12. The insertion out algorithm is an example of an algorithm in which of the following classes? A. $\Theta(\log_2 n)$ B. $\Theta(n)$ C. $\Theta(n \log_2 n)$ D. $\Theta(n^2)$	74
A $\Theta(\log_2 n)$ B. $\Theta(n)$ C. $\Theta(n \log_2 n)$ D. $\Theta(n^2)$	
4. Preconditions, postconditions, and loop invariants are examples of which of the following?	
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 perform	med in the
following loop structure?	
(= 3 WHITE IN SEC.	
A. X > 5 B. X < 5 C. X ≥ 5 D X ≤ 5	
Fill-in-the-blank/Short-answer Questions (90%)	
1. What sequence of values will be printed when the following instructions are executed? (8%)	
X = 5	
6.Z	
else: Ans 2 6	
Ans 6	
crine(3)	
else: print(2)	
2. What sequence of values will be printed when the following instructions are executed? (8%)	
#= 5 (x <7): Ans 25 \$677\$3	
x=x 41	
print(A) while (X > 24:	
orint(X)	
At most how many entries in a list of 5000 names will be interrogated when using binary search a	lgorithm? (8%)
2h = 5000 210=1024, 11=2044, 12=1092 " 3 5000 1 3 # Ans.	3 "21
At most, how many entries in a list of 5000 names will be interrogated when using sequential sear	ch algorithm? (8%)
5000 # Ans 5000	
-8 % Which of the sequential or binary search algorithms would find the name Kelly in the list more questions.	nickly?. (8° o)
John, Kelly, Lewis, Maurice, Nathan, Oliver, Pat, Quincy, Roger, Stan, Tom	
Ans: Sequential Ans: Sequen	
6. Suppose the binary search algorithm was being used to search for the entry Ton in the list	
Nathan Oliver Pat Ouincy Rodger, Stan Tom	
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? Yau (5° o) Que	
B. What would be the second entry in the list to be considered? Stau (5°0)	
D. What would be the second chart the tack of the second chart the	