CS 320 Midterm (10%) - Fall 2021

Instructor: Tyler Caraza-Harter 序代写代做 CS编程辅导

First/Given Name:	Last/Surname:
Net ID:	wisc.edu
Fill in these fields (left to	form (use pencil):
1. LAST NAME (surnam	e Liven name), fill in bubbles
2. IDENTIFICATION NUI	/ Land Land Land Land Land Land Land Land
3. Under A of SPECIAL	CODES, write your lecture number, fill in bubbles. 1=8:50am, 2=11am
	CODES, tell us about the nearest person (if any) to your left. 0=no person to
the left in your row, 1	=symeonly you ad not know is there.

5. Under C of SPECIAL CODES, do the same as B, but for the person to your right

6. Under D of SPECIAL CODES, write 7 and fill in bubble 7. This is very important!

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Make sure you fill all the special code above accurately in order to get graded.

You have 40 minutes to take the exam. Use a #2 pencil to mark all answers. When you're done, please hand in these sheets in addition to the class (having only one empty seat is considered "adjacent"). You may only reference your notesheet. You may not use books, your neighbors, calculators, or other electronic devices on this exam. Please back your stagent portion desk. Turn off and put away portable electronics now.

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Q1. Which algorithm is recursive?
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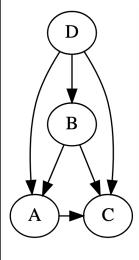
Q2. What is something h

- (A) how large a zip file is
- (B) how much memory is
- (C) how much storage sp
- (D) what the largest com



a zip file

Q3. What can be said about the following graph?



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- (A) it is not acyclic and not connected //tutorcs.com
 (B) it is connected but not acyclic science.
- (C) it is acyclic but not connected
- (D) it is both connected and acyclic

Q4. What will the length of Y be equal to after the following runs?

with open("coords.txt") as f:

X = f.read()

Y = f.read()

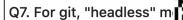
- (A) 0
- (B) len(X)
- (C) total length of the file
- (D) whatever the length of the second line in the file is

Q5. If a BST is constructed using the algorithm we learned in class, and the insert order is [6, 7, 4, 10], where will 10 be?

如 @Si编i蝇 辅导 (A) root.left.left

Q6. Each function can ha on the stack at a time.

(A) True (B) False



- (A) there is no branch nar
- (B) there is no tag named HEAD
- (C) the HEAD branch does not point to the main commit
- (D) the latest commit in untagged
- at: cstutorcs (E) HEAD does not point to any branch

Assignment Project Exam Help Q8. What is printed?

h = []

for item in [5, -1, 3, 0.5, 0]: heapq.heappush(Email: tutorcs@163.com print(heapq_heappop(h))

(A) 5 (B) -1(C) 3 (D) 0.5

- Q9. Where is a deque most useful in BFS code?
- (A) to track which nodes have prosvisite tutores.com
- (B) to track nodes to be visited in the future
- (C) to store the path from source to destination

```
Q10. If a Flask app has the following handlers, what does it print when a user visits the home page in a browser?

Qapp.route("/")

def home():
    print("X")
    return '<html><body><img src="g"></body></html>'

Qapp.route("/plot.p

def f():
    print("Y")
    return "TODO"

Qapp.route("/out.sv

def g():
    print("Z")
    return "TODO"
```

```
Q11. What does nums cortain after the following runs? roject Exam Help nums = [] def h(z):
    if z > 2:
        h(z-1)
    nums.append(z)
    h(5)
    print(nums)

(A) [2, 3, 4] (B) [2, 3, 4, 5] (C) [] (D) [4, 3, 2] (E) [5, 4, 3, 2]
```

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```
Q12. The DOM (Document object Model) of a web page is a BST (Binary Search Tree).

(A) True (B) False
```

Q13. What is the complexity of the following code, if N is the length of the list L? Choose the best answer.

```
\begin{array}{l} \mbox{for num in L:} \\ \mbox{avg} = \mbox{sum}(\mbox{L}) \ / \mbox{len}(\mbox{L}) \\ \mbox{if num} > 2 \ * \mbox{avg:} \\ \mbox{print}("\mbox{outlier!"}) \\ \mbox{(A) } O(1) \ \mbox{(B) } O(N) \ \mbox{(C) } O(N^2) \ \mbox{(D) } O(N^2+1) \ \mbox{(E) } O(N^3) \end{array}
```

(B) X and Y

(A) X only

```
Q14. What is the complexity of the following code, if N is the length of the list L? Choose the best
answer.
                1 in range(len(耀序代写代做 CS编程辅导for j in range(耀序代写代做 CS编程辅导
 for i in range(len(\( \( \begin{array}{c} \begin{array} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} 
                                if i+j < len(L):
                                              print(L[i+j])
                                                                                                                               V^2 + 1
                                                                                                                                                                 (E) O(N^3)
(A) O(1) (B) O(N)
Q15. What is \times?
  class C:
                def init (se
                                self.vals = \overline{vals}
                def _len_(self): eChat: cstutorcs
                def __getitem__(self, lookup):
                                return 2
                                                                          Assignment Project Exam Help
  obi = C([3, 5, 4])
 x = len(obj.vals) # careful!
(A) 1 (B) 2 (C) 3 (DEmail: tutores@163.com
                                                                                                                                      module of ything in the string "1B.abdc"?
Q16. Does the regular expression • r
(A) yes
                           (B) no
Q17. If L is a list with 100 items, what index should replace ???? to make the code probably run
SLOWEST?
 L.insert(????, "new entry")
(A) -1 (B) 0 (C) 50 (D) 99 (E) 100
```

```
Q18. What error might we get when running the following code?
dog.fetch("A", "B")
(A) TypeError: fetch() takes 1 positional argument but 3 were given
(B) TypeError: fetch() takes 2 positional arguments but 2 were given
(C) TypeError: fetch() takes 3 positional arguments but 2 were given
(D) TypeError: fetch() takes 4 positional arguments but 4 were given
```

Q19. Suppose the following runs without error:

code hidden

X.next = Y

Y.next = XZ.next = Y

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Which of the following refa **≘**ct as X?

(A) X.next

(B) Z.next



(D) Y.next.next.next (E) Z.next.next.next

Q20. What type does ch

(A) int

(B) bytes

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