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:
	国際競技
Net ID:	Dwisc.edu
Fill in these fields (left to	form (use pencil):
4 1 4 0 7 1 1 4 1 7	[64] \$2 to 148.4.
1. LAST NAME (surnam	
2. IDENTIFICATION NUI	D number, fill in bubbles
3. Under A of SPECIAL	CODES, write your lecture number, fill in bubbles. 1=8:50am, 2=11am
4. Under B of SPECIAL	ODES, tell us about the nearest person (if any) to your left. 0=no person to
the left in your row, 1	sweep ty 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 1 and fill in bubble 1. 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 bour filled in the f

(Black Page for You to Do Scratch Work)

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```
Q1. Suppose the following runs without error:
# code hidden 程序代写代做 CS编程辅导
X.next = Y
Y.next = X
Z.next = Y
Which of the following ref
(A) X.next
          (B) Z.next
                                       (D) Y.next.next.next (E) Z.next.next.next
Q2. The DOM (Documen
                                    web page is a BST (Binary Search Tree).
(A) True
        (B) False
                              nat: estutores
Q3. What does nums contain after the following runs?
nums = []
                    Assignment Project Exam Help
def count(z):
    if z < 4:
         count(z+1)
    nums.append(z) Email: tutorcs@163.com
count(1)
print(nums)
                                   3340<sup>(1)</sup>7<sup>(2)</sup>7<sup>(2)</sup> 3, 4]
(A) [4, 3, 2]
                                                           (E) [4, 3, 2, 1]
Q4. What is x?
                    https://tutorcs.com
class Thing:
    def __init__(self, vals):
         self.vals = vals
    def __len__(self):
         return 3
    def __getitem__(self, lookup):
         return 4
obj = Thing([2, 1, 5])
x = len(obj) # careful!
(A) 1 (B) 2 (C) 3 (D) 4 (E) 5
```

Q5. What is something htop shows?

- (A) how large a zip file is
- (B) how much memory is 操身代写代做 CS编程辅导 (C) how much storage space is being used
- (D) what the largest compressed file is inside of a zip file

Q6. Which algorithm is r

(A) DFS (B) BFS



Q7. What is printed?

items = []for item in [0.5, -1.5, 0.1]:
heapq.heappush(it) me ithat: cstutorcs

print(heapq.heappop(items))

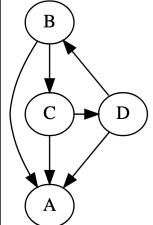
(B) -1(C) 5 (A) 0.5 (D) 0

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Q8. What type does check_output return?

(c) Email: (tutorcs@163.com (B) bytes (A) int

Q9. What can be said about the collowing man 89476



- (A) it is not acyclic and not connected
- (B) it is connected but not acyclic
- (C) it is acyclic but not connected
- (D) it is both connected and acyclic

```
Q10. What will the length of Y be equal to after the following runs?
with open("coords.txt") as f:
                     程序代写代做 CS编程辅导
     X = f.read()
     Y = f.read()
(A) 0
(B) len(X)
(C) total length of the file
(D) whatever the length o
Q11. What error might we
                                       e following code?
dog.fetch("A", "B")
(A) TypeError: fetch() takes 1 positional argument but 3 were given
(B) TypeError: fetch tytakes 1 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
Q12. If a BST is constructed using the algorithm we learned in class, and the insert order is [10,
13, 9, 12], where will 12 be?
               (B) rootleft light (c) rootleft S(b) root light right Om
(A) root.left.left
Q13. If a Flask app has the following handlers, what loss it on int when a user visits the home page in
a browser?
@app.route("/")
def home():
                    https://tutorcs.com
     print("X")
     return '<html><body><img src="plot.svg"></body></html>'
@app.route("/plot.png")
def f():
     print("Y")
     return "TODO"
@app.route("/plot.svg")
def handler2():
     print("Z")
     return "TODO"
(A) X only (B) X and Y (C) X and Z (D) X, Y, and Z
```

Q14. If L is a list with 100 items, what index should replace ???? to make the code probably run SLOWEST?

L.insert(????, "new 程序代写代做 CS编程辅导(A)-1 (B) 0 (C) 50 (b) 99 (E) 100 写代做 CS编程辅导

Q15. Each function can h

(A) True

e on the stack at a time.

Q16. What is the complex answer.

(B) False

ode, if N is the length of the list L? Choose the best

```
for i in range(len(L)):
   for j in range(3):
      if i+j < leWeChat: cstutorcs
```

(C) $O(N^2)$ (D) $O(N^2+1)$ (E) $O(N^3)$ (A) O(1)(B) O(N)

gnment Protect Protect

Q17. For git, "headless" means:

- (A) there is no branch named HEAD il: tutorcs@163.com
- (B) there is no tag named HEAD
- (C) the HEAD branch does not point to the main commit
- (D) the latest commit in untagget
- (E) HEAD does not point to any branch

Q18. What is the complexity to the Sollowing to the list L? Choose the best

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

Q19. Does the regular expression r"b.+a" match anything in the string "Bb1dac."?

(A) yes (B) no Q20. Where is a deque most useful in BFS code?

(A) to track which nodes have been visited

(B) to track nodes to be vi起源低距与代做 CS编程辅导 (C) to store the path from source to destination



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