## 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 [2]
Net ID:	<b>D</b> wisc.edu
Fill in these fields (left to	form (use pencil):
4	
1. LAST NAME (surnam	
2. IDENTIFICATION NUM	ID 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	CODES, tell us about the nearest person (if any) to your left. 0=no person to
the left in your row, 1	synebody 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 2 and fill in bubble 2. This is very important!

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

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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 additional filled in scaling of the people you know in 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 proposed to the policy of the poli

(Black Page for You to Do Scratch Work)

## 程序代写代做 CS编程辅导



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Q1. What type does check output returns
(A) int (B) bytes (C) b程序就代数 CS编程辅导

Q2. What is printed?

items = []for item in [0.5, heapq.heappush( print(heapq.heappop (A) 0.5



Q3. What is the complexity of the following code, if this the length of the list L? Choose the best answer.

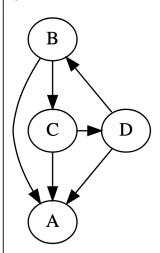
for num in L:

avg = sum(L) / len(L)if num > 2 \* ava Ssignment Project Exam Help print("outlier!")

(A) O(1) (B) O(N)

(c)  $O(N^2)$  (d)  $O(N^2 + 1)$  (e)  $O(N^3)$  Email: tutores @ 163.com

Q4. What can be said about the following graph?



**)**: 749389476

- (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

### Q5. Where is a deque most useful in BFS code?

- (A) to track which nodes have been visited
- 代做 CS编程辅导 (B) to track nodes to be visited in the future
- (C) to store the path from source to destination

Q6. What is the complex answer.



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

for i in range(len( for j in range( if i+j print(l

(A) O(1)(B) O(N)

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

Q7. If L is a list with 100 items, what index should replace ???? to make the code probably run SLOWEST?

L.insert(????, "new Arts ignment Project Exam Help (A) -1 (B) 0 (C) 50 (D) 99

# Q8. Suppose the following runs without error: torcs @ 163.com

# code hidden

X.next = YY.next = X

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Z.next = Y

Which of the following refers to the same, object as X?

(A) X.next (B) Z.next (C) X.hext.next.next (D) Y.next.next.next

(E) Z.next.next.next

## Q9. What is x?

```
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!
```

(E) 5

(A) 1 (B) 2 (C) 3 (D) 4

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



e file is

Q11. Each function can h

(A) True (B) False e on the stack at a time.

Q12. What is something http://sto.us/21at: CStutorcs

- (A) how large a zip file is
- (B) how much memory is being used (C) how much storage space is being used the project Exam Help
- (D) what the largest compressed file is inside of a zip file

Q13. What error might we get when running the following code?

dog.fetch("A", "B")

- (A) TypeError: fetch V takes 1 position 1 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 Itakes 4/ postition icas gument Mut 4 were given

Q14. If a Flask app has the following handlers, what does it print when a user visits the home page in a browser?

@app.route("/") 程序代写代做 CS编程辅导 def home(): print("X") return '<html><body><img src="plot.svg"></body></html>' @app.route("/plot.p def f(): print("Y") return "TODO" @app.route("/plot.s def handler2(): print("Z") return "TODO" Wechanxentatores (B) X and Y (A) X only

# Q15. For git, "headless" MANS: Signment Project Exam Help (A) there is no branch named HEAD

- (B) there is no tag named HEAD
- (C) the HEAD branch does not point id the main commits @ 163.com
- (D) the latest commit in untagged
- (E) HEAD does not point to any branch

Q16. Which algorithm is recursive?

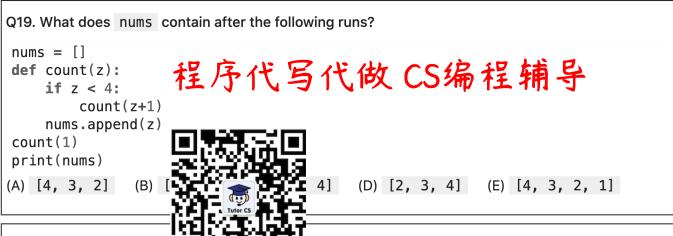
(A) DFS (B) BFS https://tutorcs.com

Q17. 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?

(A) root.left.left (B) root.left.right (C) root.right.left (D) root.right.right

Q18. Does the regular expression r"b.+a" match anything in the string "Bb1dac."?

(A) yes (B) no



Q20. The DOM (Docume)

(A) True (B) False

web page is a BST (Binary Search Tree).

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