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:
三月東京 教会	줉쁴
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********** **************************	
Fill in these fields (left to ri	form (use pencil):
Tutor CS.	124 5
1. LAST NAME (surname	iven name), fill in bubbles
2. IDENTIFICATION NUM	ID number, fill in bubbles
3. Under A of SPECIAL CODES, write y	our lecture number, fill in bubbles. 1=8:50am, 2=11am
4 11 1 0 (0000011 000000 11	

- 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=streety you do 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 8 and fill in bubble 8. This is very important!

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

Assignment Project Exam Help

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 ablu filled in scartifus Section Section Sit Goal In the your friends or other 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. Pleate hack your student lot are up for our desk. Turn off and put away portable electronics now.

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Q1. What type does check output return? (A) int (B) bytes (C) bt (D'st) (E) LES 代做 CS 编程辅导

```
Q3. What error might we tell the full intitle following code? 1 63.COM

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
```

Q4. 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
```

Q5. 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="g"></body></html>'
@app.route("/plot.p
def f():
   print("Y")
    return "TODO"
@app.route("/out.sv
def g():
   print("Z")
    return "TODO"
                 Wechat*cstutorcs
        (B) X and Y
(A) X only
```

```
Q6. What is the complexity of the jollowing code if N P the length of the list 12 Choose the best answer.
```

```
for i in range(len(L)):
    for j in range (\frac{2}{2}):
       if i+j < le Email: tutorcs@163.com
           print(L[i+j])
```

(B) O(N)(C) $O(N^2)$ (A) O(1)

- Q7. Each function can have at most one frame on the stack at a time.
- https://tutorcs.com (A) True (B) False
- Q8. Does the regular expression r"\d.+b" match anything in the string "1B.abdc"?
- (A) yes (B) no

Q9. What does nums contain after the following runs?

```
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]

Q10. Where is a deque most useful in BFS code?

- (A) to track which nodes have been visited
- (B) to track nodes to be visited in the future 5 代做 CS编程辅导
- (C) to store the path from source to destination

Q11. What will the length

with open("coords.

X = f.read()

Y = f.read()

(A) 0

- (B) len(X)
- (C) total length of the file
- (D) whatever the length of the sagond line in the file is utorcs



Q12. What can be said about the following graph? Assignment Project Exam Help

D В

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- (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

Q13. What is something htop shows?

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

Q14. Which algorithm is recursive?

(A) DFS (B) BFS

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Q15. Suppose the following runs without error:

code hidden X.next = YY.next = XZ.next = YWhich of the following re

as X?

(A) X.next (B) Z.next

- (D) Y.next.next.next (E) Z.next.next.next
- Q16. For git, "headless" means: hat: cstutorcs
- (A) there is no branch named HEAD
- (B) there is no tag named HEAD
- (C) the HEAD branch does Aot point to the main control Project Exam Help
- (D) the latest commit in untagged
- (E) HEAD does not point to any branch

imaili futores (a)

Q17. 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?

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

Q18. What is the complexity of the ollowing the list L? Choose the best answer.

```
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. The DOM (Document Object Model) of a web page is a BST (Binary Search Tree).
- (A) True (B) False

Q20. What is printed?

h = []

for item in [5, -1,程修作写代做 CS编程辅导

heapq.heappush(程证例 CS编程辅导

print(heapq.heappop(h))

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



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