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:	⊋ Pwisc.edu
Fill in these fields (left to ri	form (use pencil):
1. LAST NAME (surname	Liven name), fill in bubbles
I I -7	ID number, fill in bubbles
3. Under A of SPECIAL CODES, write you	r 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=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 4 and fill in bubble 4. This is very important!

Make sure you fill all the special code 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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Email: tutorcs@163.com

QQ: 749389476

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Q1. Does the regular expression r"b.+a" match anything in the string "Bb1dac." 在序代写代数 CS编程辅-

(A) ves (B) no

Q2. Suppose the followin

code hidden X.next = YY.next = XZ.next = Y



Which of the following ref

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

(C) X.next.next.next

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

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Q3. If a Flask app has the following handlers, what does it print when a user visits the home page in a browser?

(D) X, Y, and Z

t as X?

```
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@app.route("/")
def home():
   print("X")
   return '<html><body><img 1src="plot.svg"><body>/html>'<br/>Email: tutorcs@163.com
@app.route("/plot.png")
def f():
   print("Y")
                 QQ: 749389476
   return "TODO"
@app.route("/plot.svg")
                 https://tutorcs.com
def handler2():
   print("Z")
   return "TODO"
```

Q4. For git, "headless" means:

(A) X only

- (A) there is no branch named HEAD
- (B) there is no tag named HEAD
- (C) the HEAD branch does not point to the main commit

(B) X and Y (C) X and Z

- (D) the latest commit in untagged
- (E) HEAD does not point to any branch

Q5. 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程.risp 代的写读的例的Si编读程辅导

Q6. What does nums compared in ing runs?

nums = []

def count(z):
 count(z+1)
 nums.append(z)
 count(1)
 print(nums)

(A) [4, 3, 2] (B) [] (C) [1, 2, 3, 4] (D) [2, 3, 4] (E) [4, 3, 2, 1]

- (A) to track which nodes has gignment Project Exam Help
- (B) to track nodes to be visited in the future
- (C) to store the path from source to destination

Q7. Where is a deque most useful in BFS code?

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- Q8. Each function can have at most one frame on the stack at a time.
- (A) True (B) False

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Q9. Which algorithm is recursive?

(A) DFS (B) BFS

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Q10. What type does check_output return?

(A) int (B) bytes (C) bool (D) str (E) utf8

Q11. What is the complexity of the following code, if N is the length of the list L? Choose the best answer.

```
Q12. What is x?
class Thing:
   def __init__(se耀婷)代写代做 CS编程辅导
   def __len__(self
       return 3
   def __getitem
       return 4
obj = Thing([2, 1,
x = len(obj) # care ■
(A) 1 (B) 2 (C) 3 (D) 4
```

Q13. What will the length of Y be equal to after the following runs?

```
with open("coords.txt") as f:
              Assignment Project Exam Help
   X = f.read()
   Y = f.read()
```

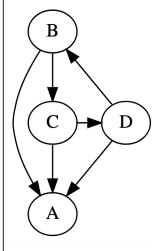
(A) 0

(B) len(X)

Email: tutorcs@163.com (C) total length of the file

(D) whatever the length of the second line in the file is

Q14. What can be said about the following graph?



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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

Q15. If L is a list with 100 items, what index should replace ???? to make the code probably run SLOWEST?

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

Q16. What is something h

- (A) how large a zip file is
- (B) how much memory is i
- (C) how much storage spa
- (D) what the largest comp



of a zip file

Q17. The DOM (Document Object Model) of a web page is a BST (Binary Search Tree).

(A) True (B) False

Q18. What is the complexity of the interest of the interest answer.

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```
for i in range(len(L)):
    for j in range(len(L)):
        if i+j < len(L):
            print(L[i+j])
```

(A) O(1) (B) O(N) (COO) 7249389476 (N^3)

Q19. What is printed?

```
items = [] https://tutorcs.com
for item in [0.5, -1, 5, 0, 2]:
    heapq.heappush(items, item)
print(heapq.heappop(items))

(A) 0.5 (B) -1 (C) 5 (D) 0 (E) 2
```

Q20. 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
```