CS 320 Midterm (10%) - Fall 2021

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

First/Given Name:	_
	国際影響
Net ID:	_
Fill in these fields (left to	ri totor (use pencil):
1. LAST NAME (surnam	ie Liven name), fill in bubbles
2. IDENTIFICATION NUI	M
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=streethy you do 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 6 and fill in bubble 6. 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 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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(Black Page for You to Do Scratch Work)

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```
Q1. If a Flask app has the following handlers, what does it print when a user visits the home page in a browser? 程序代写代的 CS编程辅导
@app.route("/")
def home():
     print("X")
                                      ></body></html>'
     return '<html>
@app.route("/plot.p
def f():
    print("Y")
     return "TODO"
@app.route("/out.svg")
def g():
     print("Z")
                     WeChat: cstutorcs
     return "TODO"
(A) X only (B) X and Y
                     (C) X and Z (D) X, Y, and Z
                         ssignment Project Exam
Q2. If L is a list with 100 items, what index should replace ???? to make the code probably run
SLOWEST?
L.insert(????, "new Entrail: tutorcs@163.com
(A) -1 (B) 0 (C) 50 (D) 99 (E) 100
Q3. Does the regular expression r"\d.+b" match anything in the string "1B.abdc"?
(A) yes
        (B) no
                    https://tutorcs.com
Q4. What is printed?
h = []
for item in [5, -1, 3, 0.5, 0]:
     heapq.heappush(h, item)
print(heapq.heappop(h))
                                 (E) 0
(A) 5
       (B) -1 (C) 3 (D) 0.5
```

Q5. Suppose the following runs without error:

```
# code hidden
X.next = Y
Y.next = X
```

Z.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

veb page is a BST (Binary Search Tree).

Q6. The DOM (Documen

(A) True (B) False



Q7. Each function can have at most one frame on the stack at a time. vechat: cstutores

(A) True (B) False

Q8. If a BST is constructed asing the algorithm we learned miles, and the insert order is Clop7, 4, 10], where will 10 be?

- (B) rootleft right i1C) root right left S (Woodt right right COm (A) root.left.left
- Q9. What is the complexity of the following code if N is the length of the list L? Choose the best answer.

```
for i in range(len(L)):
   for j in range(3):
      if i+j < lettps://tutorcs.com
```

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

```
Q10. 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)
```

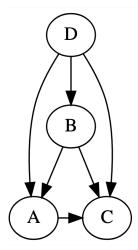
- (A) [2, 3, 4] (B) [2, 3, 4, 5] (C) [] (D) [4, 3, 2] (E) [5, 4, 3, 2]

Q11. What type does check output return?

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

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Q12. What can be said about the following graph?





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- (A) it is not acyclic and not connected number of the left is not acyclic and number of th
- (B) it is connected but not acvolic
- (C) it is acyclic but not connected
- (D) it is both connected and commail: tutores@163.com

Q13. What error might we get when running the kilowing cree?

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

- (A) TypeError: fetch() takes 1 positional argument but 3 were given
- (B) TypeError: fetch 1 the \$ 2/postition iC Square 1 that 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

```
Q14. What is x?
class C:
   def __init__(se 程序)代写代做 CS编程辅导
   def len (sel<u>f</u>)
       return 1
   def __getitem
       return 2
obi = C([3, 5, 4])
x = len(obj.vals) #
(A) 1 (B) 2 (C) 3
```

Q15. Where is a deque most useful in BFS code?

- (A) to track which nodes have been visited
- (B) to track nodes to be viresisting in ment Project Exam Help
- (C) to store the path from source to destination

tutores@163.com Q16. What is something http://www.simons.com

- (A) how large a zip file is
- (B) how much memory is fell used 749389476 (C) how much storage space is being used
- (D) what the largest compressed file is inside of a zip file

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Q17. What is the complexity of the following code, if N is the length of the list L? Choose the best answer.

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

Q18. Which algorithm is recursive?

(A) DFS (B) BFS Q19. 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

Q20. For git, "headless"

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

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