CS 320 Midterm (10%) - Fall 2021

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

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Net ID:	_ 1
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1. LAST NAME (surnam	e la
2. IDENTIFICATION NUI	Marie III number, fill in bubbles
3. Under A of SPECIAL	CODES, write your lecture number, fill in bubbles. 1=8:50am, 2=11am
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- 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=symplest by 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 3 and fill in bubble 3. 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 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

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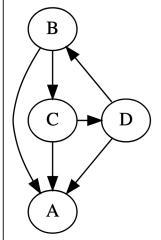
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Q1. What is x? class Thing: def __init__(self, vals): self.vals = vals def __len__(self) return 3 def __getitem_ return 4 obj = Thing([2, 1, 5]) x = len(obj) # careful! (A) 1 (B) 2 (C) 3 (DWEChat: cstutorcs

Q2. 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

Q3. 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

Q4. What is the complexity of the following code, if N is the length of the list L? Choose the best answer.

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



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



Q6. If a BST is constructed using the algorithm we learned in class, and the insert order is [10,

13, 9, 12], where will We Chat: cstutorcs

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

Q7. What is the complexity of the following code, if N is the length of the list L? Choose the bes answer.

for num in L:
 avg = sum(L) / Emmail: tutorcs@163.com
 if num > 2 * avg:
 print("outlier!")

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

Q8. What error might we betwhen 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

Q9. What type does check_output return?

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

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Q10. What is printed?
items = []
for item in [0.5, -鑑烧纸写代做 CS编程辅导 heapq.heappush(鑑烧纸写代做 CS编程辅导
print(heapq.heappop(items))
(A) 0.5
         (B) -1
                  (C)
Q11. If a Flask app has the
                                    what does it print when a user visits the home page in
a browser?
@app.route("/")
def home():
    print("X")
    return '<html><body><img src="plot.svg"></body></html>'
@app.route("/plot.pWeChat: cstutorcs
def f():
    print("Y")
    return "TODO"
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def handler2():
    print("Z")
    return "TODO" Email: tutorcs@163.com
(A) X only (B) X and Y (C) X and Z (D) X, Y, and Z
Q12. Each function can have at most one frame on the stack at a time.
(A) True
        (B) False
                    https://tutorcs.com
Q13. The DOM (Document Object Model) of a web page is a BST (Binary Search Tree).
(A) True
        (B) False
Q14. What will the length of Y be equal to after the following runs?
with open("coords.txt") as f:
    X = f.read()
    Y = f.read()
(A) 0
(B) len(X)
(C) total length of the file
(D) whatever the length of the second line in the file is
```

Q15. For git, "headless" means:

- (A) there is no branch named HEAD
- (B) there is no tag named 程序代写代做 CS编程辅导(C) the HEAD branch does not point to the main commit
- (D) the latest commit in untagged
- (E) HEAD does not point t



Q16. What is something I,

- (A) how large a zip file is
- (B) how much memory is
- (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. Where is a deque most useful in BFS code?

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

tutores (a)

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

(A) yes (B) no : 749389476

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Q19. What does nums contain after the following runs?
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nums = []
def count(z):
    if z < 4:
        count(z+1)
    nums_append(z)
count(1)
print(nums)
               (B) [] (C) [1, 2, 3, 4] (D) [2, 3, 4] (E) [4, 3, 2, 1]
(A) [4, 3, 2]
```

Q20. 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 refers to the same object as X?

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



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

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