CS 320 Midterm (10%) - Fall 2021

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

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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 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 5 and fill in bubble 5. 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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Q1. Where is a deque most useful in BES code?
(A) to track which nodes have been visited 与代做 CS编程辅导

- (B) to track nodes to be visited in the future
- (C) to store the path from



Q2. What is something h

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

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Q3. What will the length of Y be equal to after the following runs?

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

- (A) 0
- Email: tutorcs@163.com (B) len(X)
- (C) total length of the file
- (D) whatever the length of the second line in the file is

- Q4. The DOM (Document Object Model) of a web page is a BST (Binary Search Tree).
- https://tutorcs.com (A) True (B) False

```
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("/")
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"
```

```
Q6. What does nums contain after the following runs Project Exam Help 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]
```

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```
Q7. Does the regular expression provide the string "1B. abdc"?

(A) yes (B) no
```

```
Q8. What type does check_output return?

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

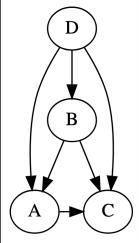
Q9. What is the complexity of the following code, if N is the length of the list L? Choose the best answer.

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

(B) X and Y

(A) X only

Q10. 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 love. Chat: cstutorcs
- (C) it is acyclic but not connected
- (D) it is both connected and acyclic

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Q11. What error might we get when running the following code?

```
dog.fetch("A", "B") Email: tutorcs@163.com
```

- (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 positions derginents but 2 were given
- (D) TypeError: fetch() takes 4 positional arguments but 4 were given

Q12. 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 < len(L):
            print(L[i+j])
                   (C) O(N^2) (D) O(N^2+1) (E) O(N^3)
         (B) O(N)
(A) O(1)
```

Q13. 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
```

Q14. Each function can have at most one frame on the stack at a time.

(A) True (B) False

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Q15. If a BST is constructed using the algorithm we learned in class, and the insert order is [6, 7,

4, 10], where will 10

(A) root.left.left

(B) roo



right.left (D) root.right.right

Q16. Which algorithm is

(A) DFS (B) BFS

h = []

Q17. What is printed?

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for item in [5, -1, 3, 0.5, 0]:
 heapq.heappush(h, item)

print(heapq.heappopAssignment Project Exam Help

(A) 5 (B) -1 (C) 3 (D) 0.5 (E) 0

Q18. Suppose the following runs without error: @163.com

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?

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

Q19. For git, "headless" means:

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



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