程序代码 作为 2025编程辅导

dterm - 20%

(Last) Surname: (First) Given name: _

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Fill in these fields (1) \square scantron form (use #2 pencil):

- 1. LAST NAME (surname) and FIRST NAME (given name), fill in bubbles
- 2. IDENTIFICATION NUMBER is your Campus ID number, fill in bubbles
- 3. Under A of STACIAL COPPES, write on the following fill in bubbles:
 - 1 MWF 9:55am (Tyler morning)
 - 2 MWF 2:25pm (Tyler afternoon)
- 4. Under B of SPECIAL CODES, tell us about the nearest person (if any) to your left
 - 0 napessignment Ewroject Exam Help
 - 1 somebody you **do not** know is there
 - 2 somebody you **do** know is there
- 5. Under C of SPECIAL CODES UP blank

 6. Leave special codes UE blank
- 6. Leave special codes *DE* blank
- 7. Under F of SPECIAL CODES, write 8 and fill in bubble 8

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Make sure you fill all the special codes above accurately in order to get graded. https://tutorcs.com

You have 2 hours to take the exam. Use a #2 pencil to mark all answers. When you're done, please hand in these sheets in addition to your filled-in scantron.

You may not sit adjacent to 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. Please place your student ID face up on your desk. Turn off and put away portable electronics now.

We won't always include imports in examples, but assume it has been done in a standard way (for example, assume from pandas import DataFrame, Series before each code example). Sometimes there will be multiple right answers – choose the best one. For example, saying an order of growth is in O(N) is more informative (and therefore better) than saying it is in $O(N^{**}2)$, assuming both are true.



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Trees

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1. Which leaf shoul Abssignmente Projecte Exam Help

A. 1 B. 4.5 **C. 5** D. 8 E. 99

2. What is root.1 Etmaileftutorcs@163.com

A. None B. node 1 C. node 2 D. node 4 E. node 4.5

3. If somebody calls contains (100) 318 9 of They times will contains be invoked? Assume root refers to node 6.

A. 1 B. 2 C. 4 D. 6/E. 12 https://tutorcs.com

4. What is/are the base ease(s) for contains?

A. when node == None

B. when node.val == target

C. all of the above

- D. none of the above
- 5. (T/F) When inserting nodes to a BST, inserting in random order will typically produce a **more balanced** tree than inserting in ascending order.

A. True B. False

Complexity

程序代与代做 CS级 Assume a correct and efficient merge_sort implementation (like

len(nums).

```
def cumulative_v1
   nums = merge
   results = []
   for i in rang
      for j in
          total += nums[i]
      results.append(total)
   return result WeChat: cstutorcs
def cumulative_v2(presorted_nums):
   results = dequal ssignment Project Exam Help
   for x in presorted_nums:
      total += x
      results. a tutores @ 163.com
   return results
```

- 6. (T/F) replacing results.append total) with results.insert(0, total) in the first function would make the code more efficient.
 - A. True B. False

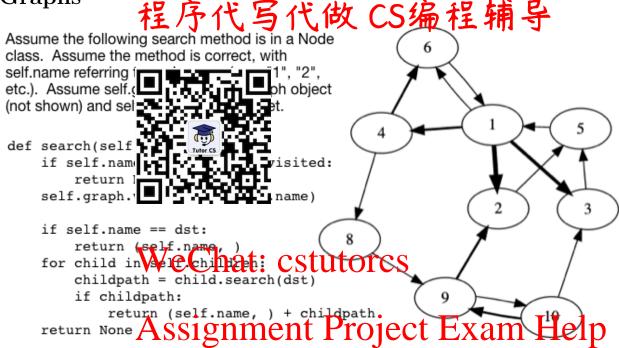
- 7. What is the time complexity of cumulative_v1?
 - C. O(N) D. $O(N \log N)$ E. $O(N^{**2})$ A. O(1)B. $O(\log N)$
- 8. What is the time complexity of cumulative_v2?
 - B. O(log N) C. O(N) D. $O(N \log N)$ E. $O(N^{**}2)$ A. O(1)
- 9. Which orders of growth are equivalent to $O(2 * N^{**}2)$?
 - A. $O(2 * N^{**}3)$ B. $O(3 * N^{**}2)$ C. all of the above D. none of the above
- 10. A loop that iterates 100 times, each time printing the **length** of a list that contains **N** elements (and doing nothing else) has what complexity?
 - B. $O(\log N)$ C. O(N) D. $O(N \log N)$ E. $O(N^{**}2)$ A. O(1)

Web 程序代写代做 CS编程辅导from flask import Flask, request app = Flask(__name__) @app.route("/a.ht def b(): with open("a. return f @app.route("/b.ht def a(): q = "<html><body>{}</body></html>".format("B" + "e"*10) return q VeChat: cstutorcs @app.route("/c.html") def c(): mult = int(redestsignishent, Project Exam Help return "ha" * mult signishent, Project Exam Help if __name__ == "__main__": app.run(host=1200211) tutorcs@163.com 11. Which function runs when "http://localhost/a.html" is visited? Careful, trick question! 12. Which page is statetps://tutorcs.com A. a.html B. b.html C. c.html 13. Which page uses a query string? A. a.html B. b.html C. c.html 14. Capp.route("/a.html") is an example of a(n): A. attributer B. decorator C. firewall D. IP address E. POST request 15. (T/F) The following will find at least on match: $re.findall(r"^\d\d", "K9")$

A. True

B. False

Graphs



- 16. (T/F) The search method is an example of depth-first search.
 - A. True B. Email: tutorcs@163.com
- 17. What is the graph an example of Shoot the most informative answer.

A. directed graph

B. DAG

C. tree

D. BST

18. What is the shoppings from trule orese com

A. 9,1 B. 9,2,1

C. 9,2,5,1

D. 9,10,3,5,1

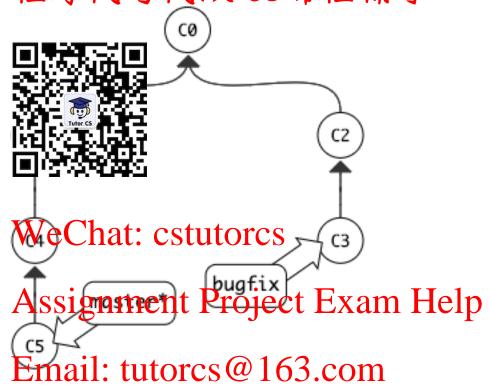
19. If node4 refers to the node with name "4", which of the following nodes will be checked last by node4.search("11")? By "checked", we mean this part: self.name == dst. Hint: node "6" will be visited before node "8".

A. 2 B. 3 C. 5 D. 9 **E. 10**

- 20. If search were modified, what kind of coding mistake could cause a stack overflow?
 - A. not adding nodes to visited
 - B. iterating over node children in reverse order
 - C. deleting the line that makes the recursive call to search
 - D. changing all the returns to return None

```
Object Oriented Programming 程序代写代做 CS编程辅导
class Vehicle:
   def honk(self, mult=1)
       print("be
class Bus(Vehicl
   def __init
       self.capa
   def board(self, passe
       passengers = min(passengers, self.capacity-self.filled)
       self.filled += passengers
                          at: cstutores
       return passingers
class Car:
               Assignment Project Exam Help
   pass
v = Vehicle()
b1 = Bus(32)
               Email: tutorcs@163.com
b2 = Bus(32)
c = Car()
b1.board(30)
result = b2.board Q: 749389476
21. Which call will fail?
               https://tutorcs.com v.honk(3)
   A. b1.honk()
22. What will result be?
   A. 0
        B. 2
               C. 4
                    D. 32
                            E. 64
23. What special method does print prefer to use, if available?
   A. __init__ B. __repr__ C. __str__
24. In this code, self is the name of a(n):
   A. attribute
              B. class
                       C. constructor
                                     D. receiver parameter
25. (T/F) Calling b2.capacity() will return 32.
   A. True
            B. False
```

Reproducibility 程序代写代做 CS编程辅导



- 26. (T/F) The current state is in "headless" mode.
 - A. True B. 100: 749389476
- 27. Which command will create a new commit with changes from both C5 and C3?

A. add B. commit C. merge D. branch E. checkout

- 28. What does time.time() return?
 - A. datetime object representing current time
 - B. milliseconds to run entire program
 - C. milliseconds since 1950
 - D. seconds since 1970
 - E. seconds to run the prior piece of code
- 29. What type does subprocess.check_output(...) return by default?
 - A. bool **B. bytes** C. list D. process
- 30. What is a running program is called?
 - A. binary B. executable C. jogger D. port E. process

Congrats on finishing the first CS 320 exam anybody has ever taken! 精导



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