#### **Q5 (through Graph Search 2)**

### ①This is a preview of the 程lisp代的写代的 CS编程辅导

Started: Nov 2 at 9:52am

Qui	z Instructi				
[		Tutor cs			
	Question 1		0.1 pts		
	Which acronym does NOT refer to a type of graph?  CSTUTOTCS				
	○ DAG	Assignment Project Exam	Heln		
	○ BST	7 1551811111011011 Toject Exam	Потр		
	○ BFS	Email: tutorcs@163.com			
ı		QQ: 749389476			
	Question 2		0.1 pts		
		https://tutorcs.com			
	What is the largest number of grandchildren that the root of a binary tree might have?				
	Question 3		0.1 pts		
	Which statemen	it is TRUE?			

every binary tree is a BST

	○ every DAG is also a directed graph				
	○ every non-root in a binary tree has exactly two parents				
	○ every non-leaf in 程序代	生物于			
>	Question 4 +	0.1 pts			
	In order to make worst-case lookups as fast as possible, we prefe	er our BSTs to be:			
	○ short WeChat: cstutorcs				
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-		0.2 pts			
	QQ: 749389476				
	During a graph search, the program crashes due to a stack overflowing many stack frames are allocated). What graph search algorithm in the company of the co	•			
	○ DFS				
	○ BFS				
	Question 6	0.1 pts			
	For which use case is Python's deque data structure NOT suitable	e?			
	○ queue				

- stack
- priority queue

# 程序代写代做 CS编程辅导

#### **Question 7**



0.1 pts

always a DAG?

- streets: nodes for intersections, edges for street sections connecting intersections
- human ancestry: hove for people, edges for parent to children
- ogit: nodes for commits, edges pointing from each commit to the prior commit

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#### **Question 8**

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0.2 pts

Assume nums is a list with N elements. What is the complexity of the following code? Calling len(q) is a single step. For the complexity of the other deque operations in the ford ting code, the may be useful to reference the first couple paragraphs of the deque documentation:

https://docs.python.org/3/library/collections.html#collections.deque & (https://docs.python.org/3/library/collections.html#collections.deque) before answering.

If multiple answers are correct, choose the best answer.

```
from collections import deque
q = deque()
for x in nums:
    q.append(x)
while len(q) > 0:
    print(q.popleft())
```

 $\bigcirc$  O(1)

Not saved

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