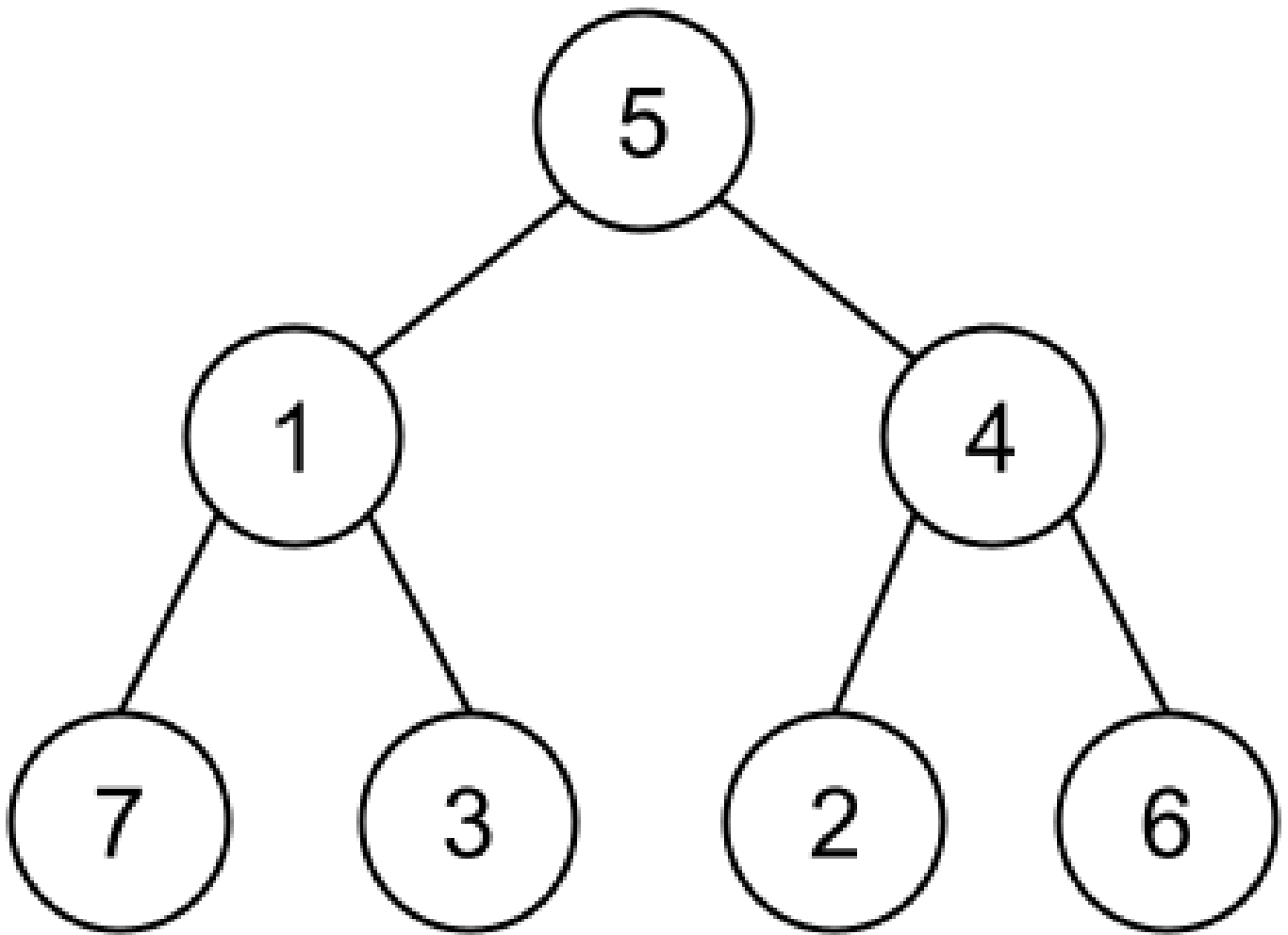


Week 8 Quiz

Q1.

Consider the following binary tree:



Which of the following is a pre-order traversal of the tree?

- A. 5 1 4 7 3 2 6
- B. 5 1 7 3 4 2 6
- C. 7 1 3 5 2 4 6
- D. 7 3 1 2 6 4 5

Q2.

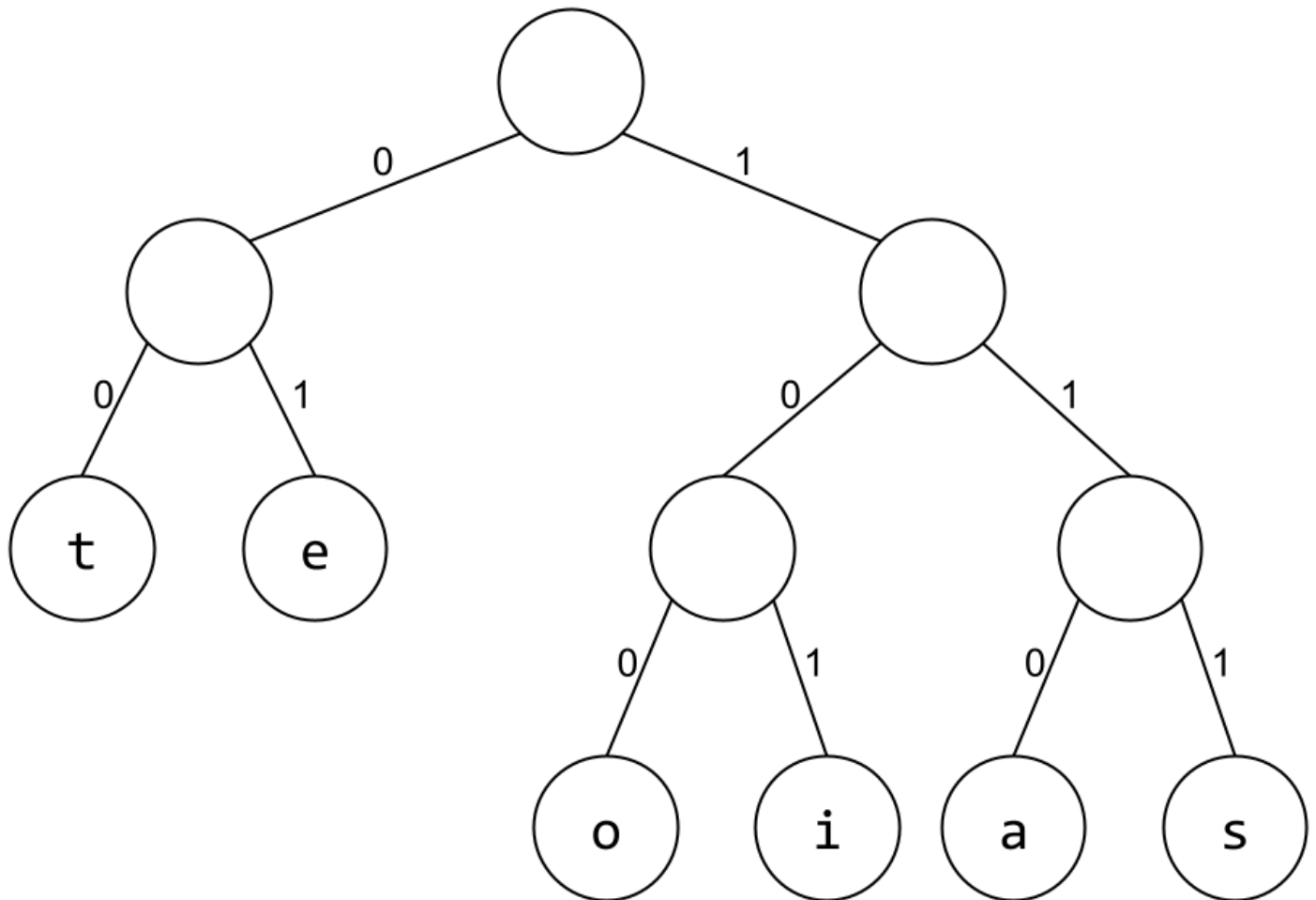
Imagine an algorithm that counts the number of nodes in a binary tree. What's the running time of that algorithm in the best case?

- A. $O(1)$
- B. $O(\log n)$

- C. $O(n)$
- D. $O(n \log n)$

Q3.

Consider the Huffman tree below:



What is the encoding of the string 'tease'?

- A. 011100011100
- B. 010011011101
- C. 000011101101
- D. 000111011101