I hereby pledge on my honor that I will strictly adhere to academic integrity codes and the work done or this examination is solely my own and I will not recieve/give ony help from I to anybody or source during this examination.

Barba Bayin

public void bfs (int depth, Node node) {

if (node == null) return;

if (node == root) System. out.pml/n(node.data.toSlang() + ""+depth);

if (node.left!= null) System.out.pml/n (node.left.data.toSlang() + ""+

bfs (depth +1, node.left);

bfs (depth+1);

bfs (depth+1, node.right);

(depth+1));

O(n) = S(n) = Q(n) (Traverses every element once)

2a) Best-Case -> S(nlogn)
Avg-case -> Q(nlogn)
Worst-Case -> O(n2)
b)
S(nlogn)

"It is still organg Open Research,
the time Complexity of Quick Sort
M Computer Science !!
"Average Case of Quick Sort contre

"No or now depending on the situation

[I saw both in the slides.]

[I picked niogn one.

1- Quick Sort Deinlogn)
2- merge Sort Olnlogn)
3- merge Sort