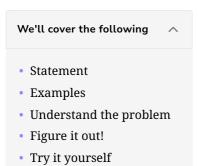
### Kth Smallest Element in a BST

Try to solve the Kth Smallest Element in a BST problem.



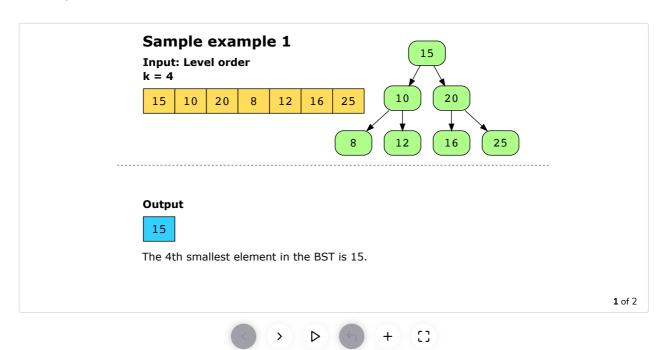
#### **Statement**

Given the root node of a binary search tree and an integer value k, return the kth smallest value from all the nodes of the tree.

#### **Constraints:**

- The number of nodes in the tree is n.
- $1 \le k \le n \le 10^4$
- $0 \leq \text{Node.value} \leq 10^4$

## **Examples**

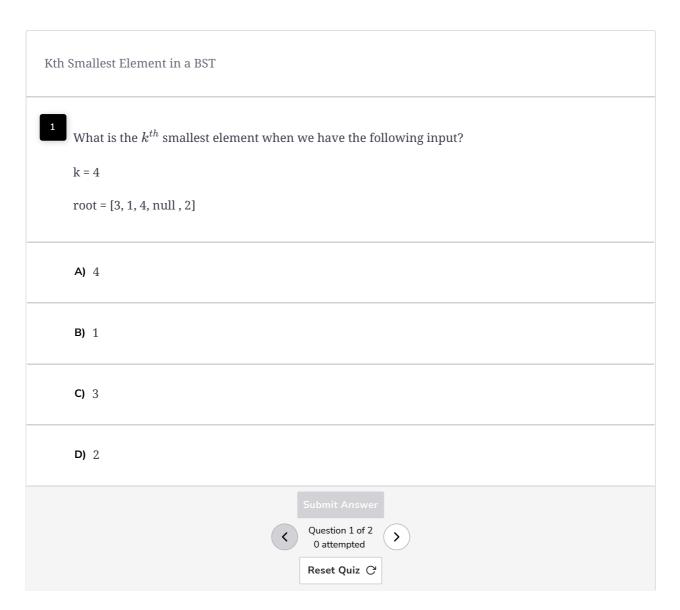


# Understand the problem

Let's take a moment to make sure you've correctly understood the problem. The quiz below helps you check if you're solving the correct problem:

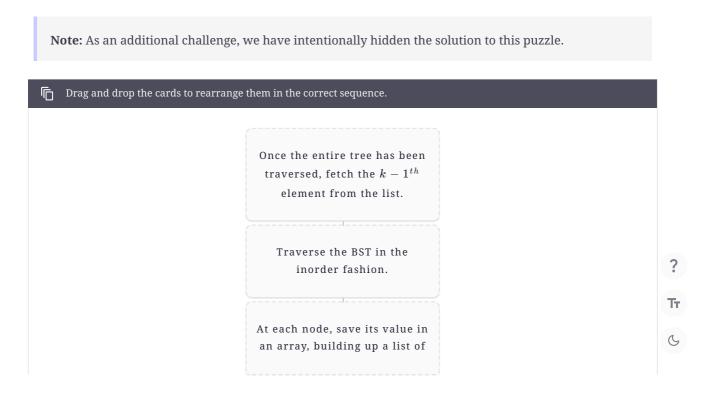
Tτ

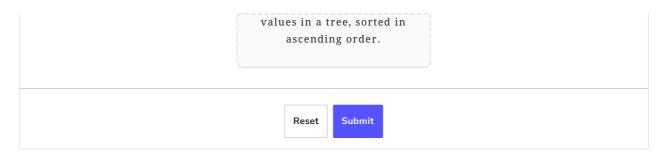
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# Figure it out!

We have a game for you to play. Rearrange the logical building blocks to develop a clearer understanding of how to solve this problem.





# Try it yourself

Implement your solution in KthSmallest.java in the following coding playground.

