270. Closest Binary Search Tree Value `Premium`
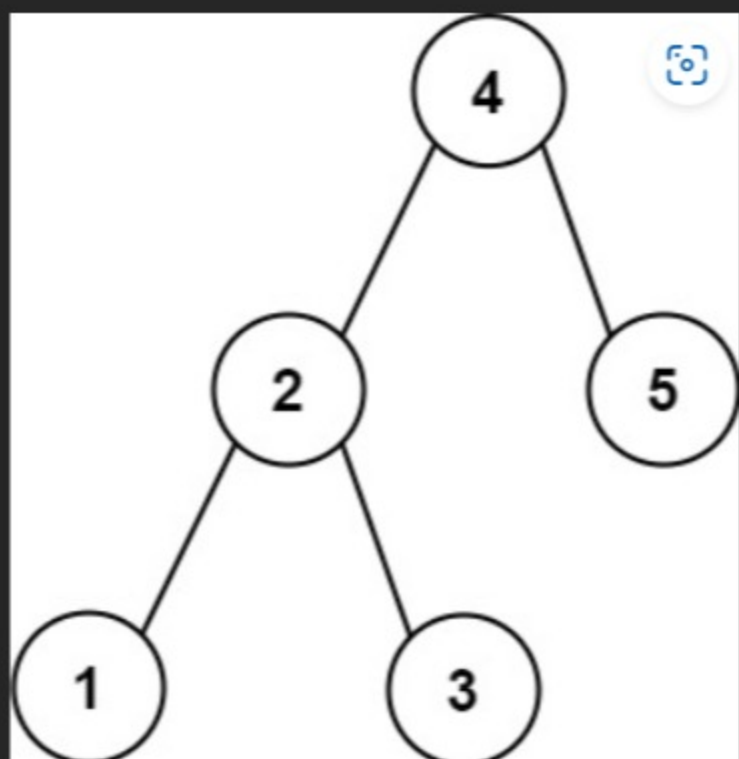
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Given the `root` of a binary search tree and a `target` value, return *the value in the BST that is closest to the* `target`. If there are multiple answers, print the smallest.

Example 1:


```
Input: root = [4,2,5,1,3], target = 3.714286
Output: 4
```

Example 2:

```
Input: root = [1], target = 4.428571
Output: 1
```

Constraints:

- The number of nodes in the tree is in the range $[1, 10^4]$.

- $0 <= Node.val <= 10^9$

- $-10^9 <= target <= 10^9$

Seen this question in a real interview before?   1/5

`Yes`   `No`

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