

<https://course.acciojob.com/idle?question=8ff8e1b8-b718-47b4-9455-06b354499a8c>

● MEDIUM

● Max Score: 40 Points

●

Minimum element in BST

You are given N nodes and have to form BST from it. The task is to find the minimum element in this BST.

Input Format

The first line inputs N, the number of nodes.

The second line inputs the value of N nodes of the BST.

Output Format

Print the minimum value of the BST in a new line.

Example 1

Input

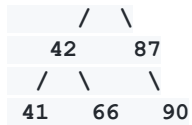
```
7
2 81 42 87 90 41 66
```

Output

```
2
```

Explanation

```
  2
   \
  81
```



The minimum in the BST is 2.

Example 2

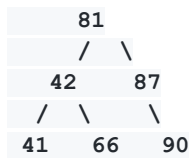
Input

```
6
81 42 87 90 41 66
```

Output

```
41
```

Explanation



The minimum in the BST is 41.

Constraints:

$1 \leq N \leq 1000$

$-1000 \leq \text{Val}[\text{node}] \leq 1000$

Topic Tags

- Recursion
- BST

My code

```
// n java
import java.util.*;
import java.lang.*;
import java.io.*;

class Node
{
    int data;
    Node next ,prev;

    Node(int data, Node next,Node prev)
    {
        this.data = data;
        this.next = next;
        this.prev = prev;
    }

    Node() {}
}

public class Main
{
    static Node insert(Node root,int n)
    {
        if(root==null)
        {
            root=new Node(n,null,null);
        }
    }
}
```

```

    return root;
}
else if(n< root.data)
    root.prev= insert( root.prev, n);
else if(n>root.data)
    root.next= insert( root.next, n);
return root;
}

```

```

static void find_min(Node root)
{
    if(root.prev==null )
    {
        System.out.print(root.data);
    }
    else find_min( root.prev);
}

```

```

    public static void main (String[] args) throws
java.lang.Exception
    {
        //your code here
        Scanner s=new Scanner(System.in);
        int n=s.nextInt();
        // int k=s.nextInt();
        //int arr[]=new int[n];
        Node root=null;
        for(int i=0;i<n;i++)
        {

```

```
int m=s.nextInt();
    root=insert( root, m);
}
    find_min(root);
}
}
```