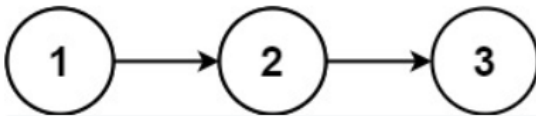


Given a singly linked list, return a random node's value from the linked list. Each node must have the **same probability** of being chosen.

Implement the `Solution` class:

- `Solution(ListNode head)` Initializes the object with the integer array nums.
- `int getRandom()` Chooses a node randomly from the list and returns its value. All the nodes of the list should be equally likely to be chosen.

**Example 1:**



**Input**

```
["Solution", "getRandom", "getRandom", "getRandom", "getRandom", "getRandom"]
```

```
[[[1, 2, 3]], [], [], [], [], []]
```

**Output**

```
[null, 1, 3, 2, 2, 3]
```

**Explanation**

```
Solution solution = new Solution([1, 2, 3]);
solution.getRandom(); // return 1
solution.getRandom(); // return 3
solution.getRandom(); // return 2
solution.getRandom(); // return 2
solution.getRandom(); // return 3
// getRandom() should return either 1, 2, or 3 randomly. Each element should have equal
probability of returning.
```

**Constraints:**

- The number of nodes in the linked list will be in the range  $[1, 10^4]$ .
- $-10^4 \leq \text{Node.val} \leq 10^4$
- At most  $10^4$  calls will be made to `getRandom`.