

Clone Graph

Given a reference of a node in a connected undirected graph.
Return a deep copy (clone) of the graph.
Each node in the graph contains a value (int) and a list (List[Node]) of its neighbors.

```
class Node {  
    public int val;  
    public List<Node> neighbors;  
}
```

Input: adjList = [[2,4],[1,3],[2,4],[1,3]]

Output: [[2,4],[1,3],[2,4],[1,3]]

Explanation: There are 4 nodes in the graph.

1st node (val = 1)'s neighbors are 2nd node (val = 2) and 4th node (val = 4).

2nd node (val = 2)'s neighbors are 1st node (val = 1) and 3rd node (val = 3).

3rd node (val = 3)'s neighbors are 2nd node (val = 2) and 4th node (val = 4).

4th node (val = 4)'s neighbors are 1st node (val = 1) and 3rd node (val = 3).

Input: adjList = [[2],[1]]

Output: [[2],[1]]

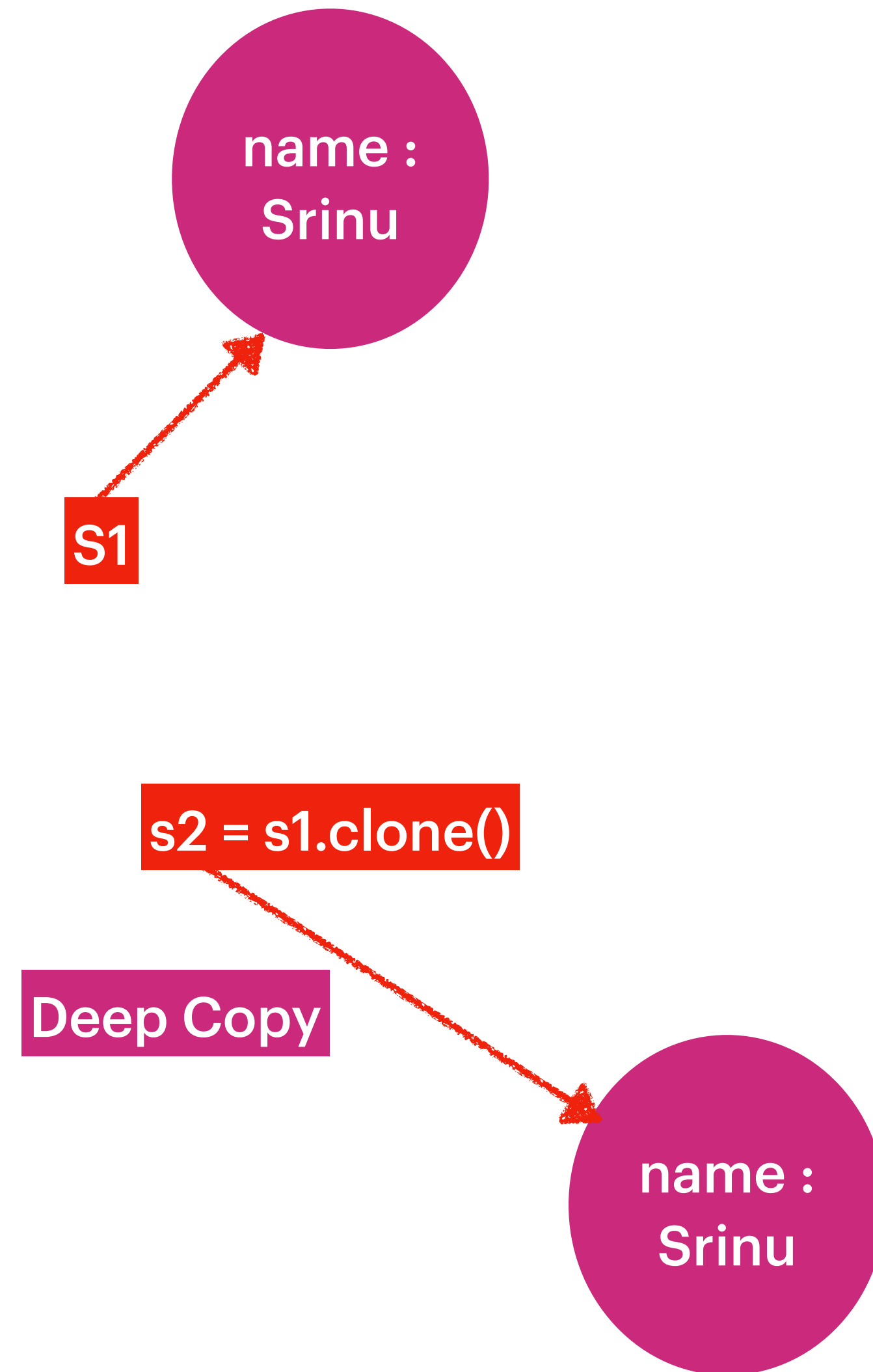
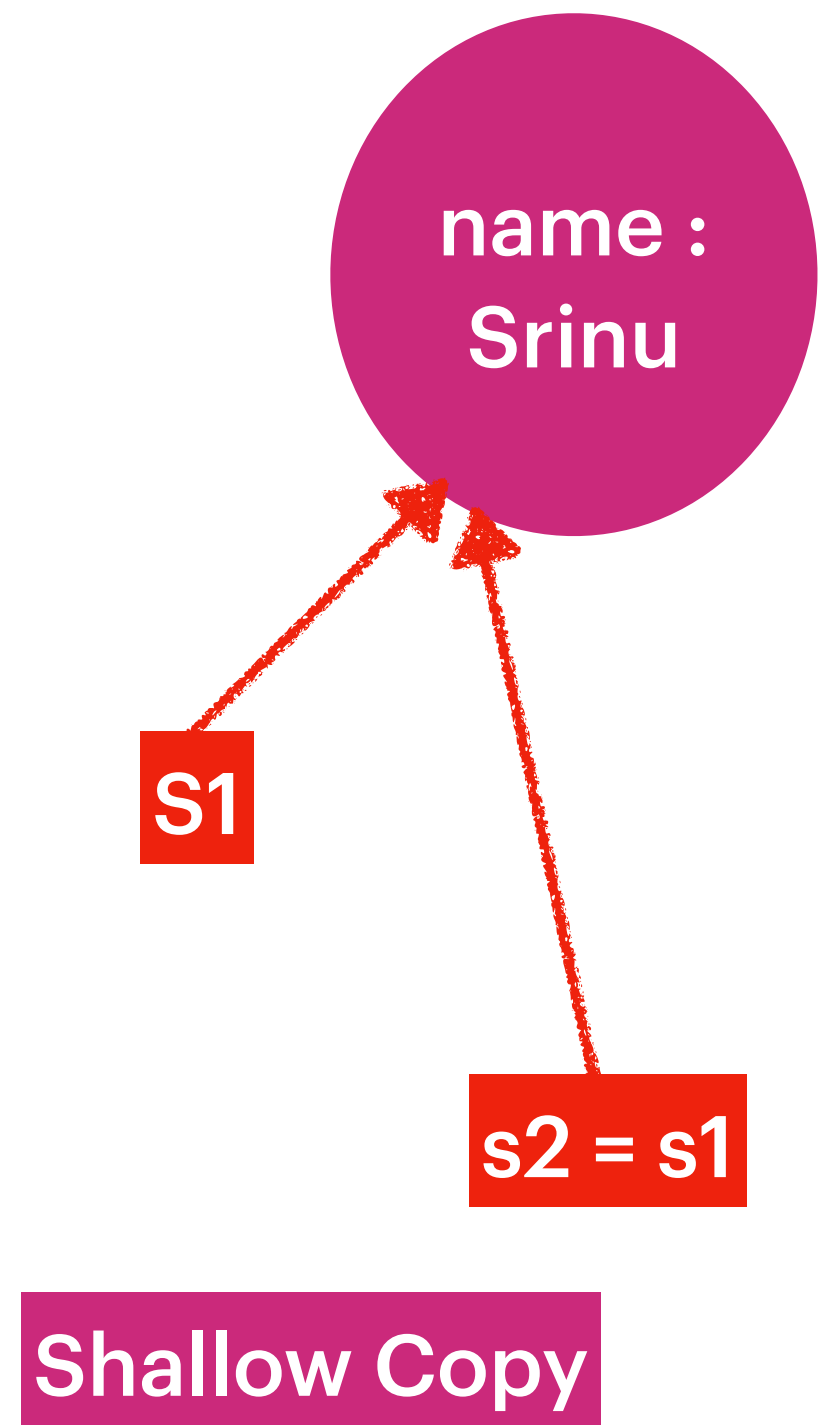
Input: adjList = [[]]

Output: [[]]

Explanation: Note that the input contains one empty list. The graph consists of only one node with val = 1 and it does not have any neighbors.

Constraints:
The number of nodes in the graph is in the range `[0, 100]`.
`1 <= Node.val <= 100`
`Node.val` is unique for each node.
There are no repeated edges
and no self-loops in the graph.
The Graph is connected and all nodes can
be visited starting from the given node.

```
class cloneGraph {  
    public Node cloneGraph(Node node) {  
        }  
}
```



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