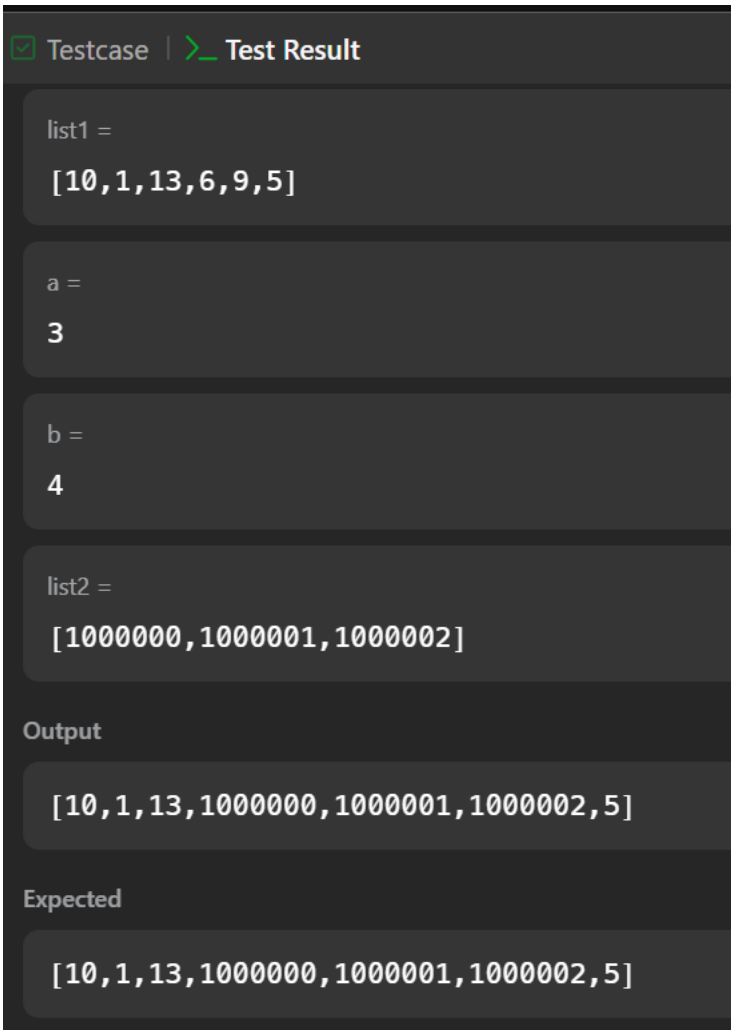
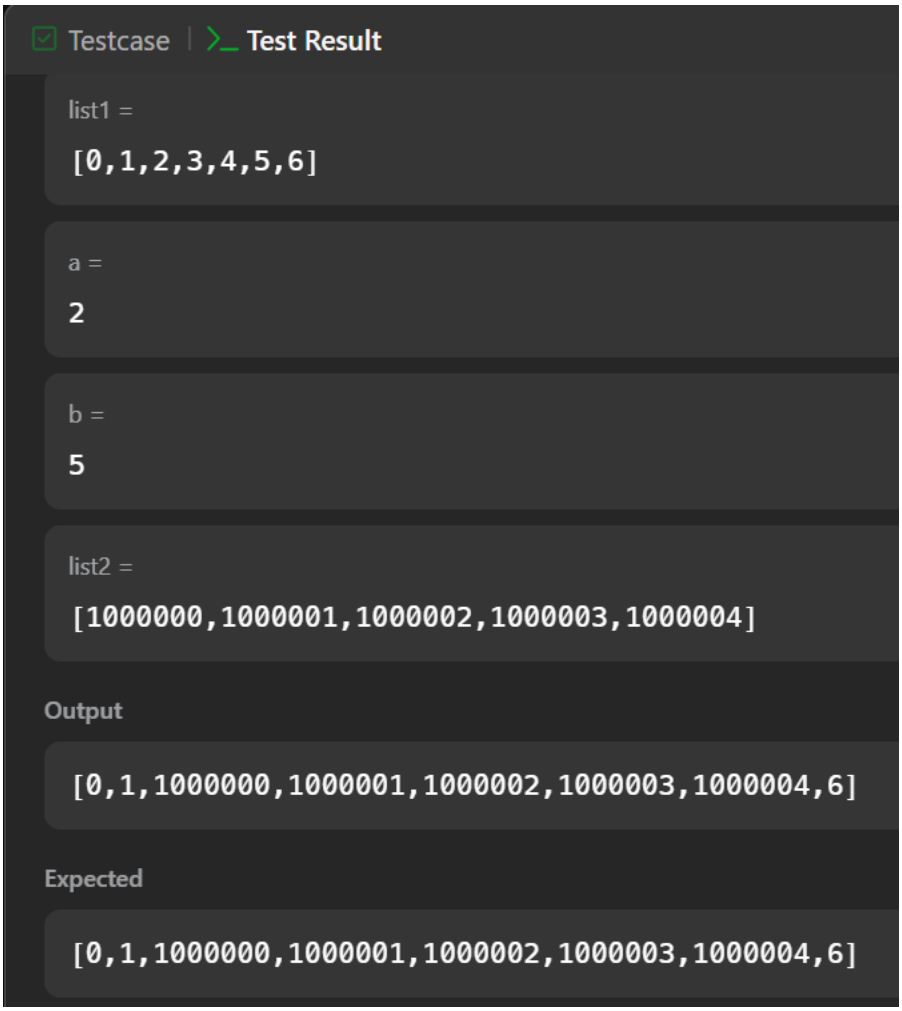
6. Merge in between linked lists (LeetCode)

```
class Solution {
public:
    ListNode* mergeInBetween(ListNode* list1, int a, int b, ListNode* list2) {
        ListNode* prevA = list1;
        for (int i = 0; i < a - 1; i++)
            prevA = prevA->next;

        ListNode* afterB = prevA;
        for (int i = 0; i <= b - a + 1; i++)
            afterB = afterB->next;

        prevA->next = list2;

        ListNode* tail = list2;
        while (tail->next != nullptr)
            tail = tail->next;

        tail->next = afterB;

        return list1;
    }
};
```

OUTPUT:


Testcase
Test Result
list1 =
[10,1,13,6,9,5]
a =
3
b =
4
list2 =
[1000000,1000001,1000002]
Output
[10,1,13,1000000,1000001,1000002,5]
Expected
[10,1,13,1000000,1000001,1000002,5]


Testcase
Test Result
list1 =
[0,1,2,3,4,5,6]
a =
2
b =
5
list2 =
[1000000,1000001,1000002,1000003,1000004]
Output
[0,1,1000000,1000001,1000002,1000003,1000004,6]
Expected
[0,1,1000000,1000001,1000002,1000003,1000004,6]