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# Get Node Value 🛨



Problem Submissions Leaderboard

Editorial A

This challenge is part of a tutorial track by MyCodeSchool

Given a pointer to the head of a linked list and a specific position, determine the data value at that position. Count backwards from the tail node. The tail is at postion 0, its parent is at 1 and so on.

#### Example

head refers to  $3 \rightarrow 2 \rightarrow 1 \rightarrow 0 \rightarrow \textit{NULL}$ 

positionFromTail = 2

Each of the data values matches its distance from the tail. The value 2 is at the desired position.

#### **Function Description**

Complete the getNode function in the editor below.

getNode has the following parameters:

- SinglyLinkedListNode pointer head: refers to the head of the list
- int positionFromTail: the item to retrieve

### Returns

• int: the value at the desired position

## **Input Format**

The first line contains an integer  $\boldsymbol{t}$ , the number of test cases.

Each test case has the following format:

The first line contains an integer  $\boldsymbol{n}$ , the number of elements in the linked list.

The next  ${m n}$  lines contains an integer, the data value for an element of the linked list.

The last line contains an integer *positionFromTail*, the position from the tail to retrieve the value of.

# Constraints

- $1 \le t \le 10$
- $1 \le n, m \le 1000$
- $1 \leq list[i] \leq 1000$ , where list[i] is the  $i^{th}$  element of the linked list.
- $\bullet \ \ 0 \leq positionFromTail < n$

# Sample Input

- 2
- 1
- 1
- 0 3
- 3
- 2 1

Sample Output

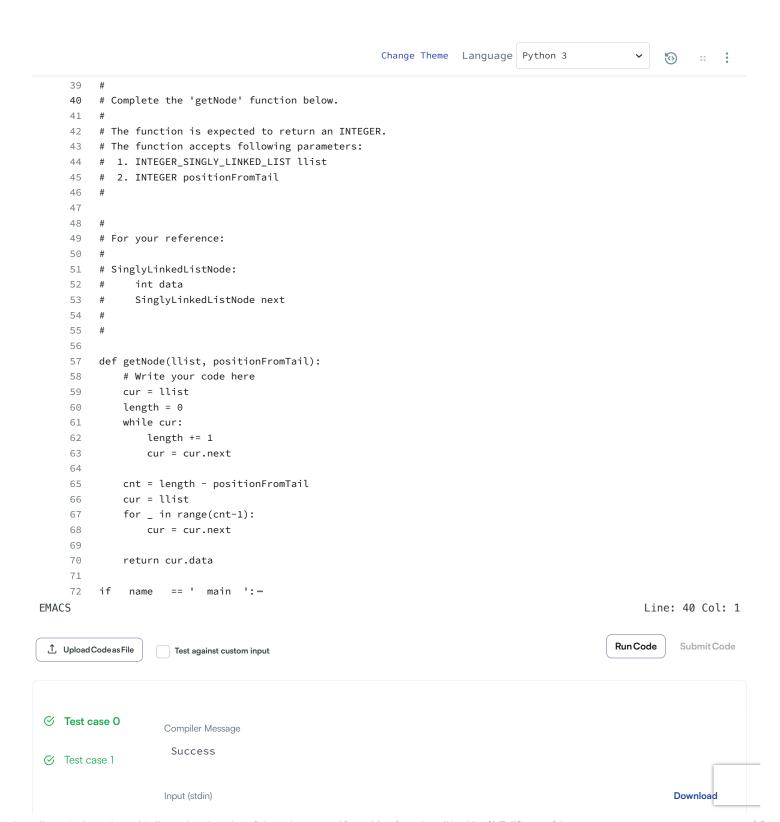
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### Explanation

In the first case, there is one element in linked list with a value of 1. The last (only) element contains 1.

In the second case, the list is  $3 \rightarrow 2 \rightarrow 1 \rightarrow NULL$ . The element with position of 2 from tail contains 3.



	1	2
O lest case 2	2	1
	3	1
	4	0
	5	3
	6	3
	7	2
	8	1
C/ T . / O	9	2

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