

Get Node Value

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 position 0, its parent is at 1 and so on.

Example

head refers to $3 \rightarrow 2 \rightarrow 1 \rightarrow 0 \rightarrow \text{NULL}$
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 *t*, the number of test cases.

Each test case has the following format:

The first line contains an integer *n*, the number of elements in the linked list.

The next *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

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

Sample Input

```
2
1
1
0
3
3
```

2
1
2

Sample Output

1
3

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** → **2** → **1** → *NULL*. The element with position of 2 from tail contains 3.