

Delete a node

<https://www.hackerrank.com/challenges/delete-a-node-from-a-linked-list/problem>

This challenge is part of a tutorial track by "My CodeSchool" (<https://www.youtube.com/user/mycodeschool>) and is accompanied by a video lesson.

You're given the pointer to the head node of a linked list and the position of a node to delete. Delete the node at the given position and return the head node. A position of 0 indicates head, a position of 1 indicates one node away from the head and so on. The list may become empty after you delete the node.

Input Format

You have to complete the `deleteNode(SinglyLinkedListNode* llist, int position)` method which takes two arguments - the head of the linked list and the position of the node to delete. You should NOT read any input from stdin/console. position will always be at least 0 and less than the number of the elements in the list.

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

The next n lines contain an integer each in a new line, denoting the elements of the linked list in the order.

The last line contains an integer *position* denoting the position of the node that has to be deleted from the linked list.

Constraints

$$1 \leq n \leq 1\,000$$

$$1 \leq list_i \leq 1\,000, \text{ where } list_i \text{ is the } i^{th} \text{ element of the linked list.}$$

Output Format

Delete the node at the given position and return the head of the updated linked list. Do NOT print anything to stdout/console.

The code in the editor will print the updated linked list in a single line separated by spaces.

Sample Input	Expected Output	Explanation
8 20 6 2 19 7 4 15 9 3	20 6 2 7 4 15 9	The given linked list is 20->6->2->19->7->4->15->9. We have to delete the node at position 3, which is 19. After deleting that node, the updated linked list is: 20->6->2->7->4->15->9