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This challenge is part of a tutorial track by MyCodeSchool and is accompanied by a video lesson.

Delete the node at a given position in a linked list and return a reference to the head node. The head is at position 0. The list may be empty after you delete the node. In that case, return a null value.

Example

$llist = 0 \rightarrow 1 \rightarrow 2 \rightarrow 3$

$position = 2$

After removing the node at position 2, $llist' = 0 \rightarrow 1 \rightarrow 3$.

Function Description

Complete the deleteNode function in the editor below.

deleteNode has the following parameters:

- SinglyLinkedListNode pointer llist: a reference to the head node in the list
- int position: the position of the node to remove

Returns

- SinglyLinkedListNode pointer: a reference to the head of the modified list

Input Format

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

Each of the next n lines contains an integer, the node data values in order.

The last line contains an integer, $position$, the position of the node to delete.

Constraints

- $1 \leq n \leq 1000$
- $1 \leq list[i] \leq 1000$, where $list[i]$ is the i^{th} element of the linked list.

Sample Input

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Difficulty Easy

Max Score 5

Submitted By 169625

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```
78   */
79  SinglyLinkedListNode* deleteNode(SinglyLinkedListNode* head, int position) {
80      SinglyLinkedListNode *p,*q;
81      int count=1;
82      p=head;
83      if(position==0){
84          head=head->next;
85          free(p);
86          return head;
87      }
88      else{
89          while(count!=position)
90          {
91              p=p->next;
92              count++;
93          }
94          q=p->next;
95          p->next=q->next;
96          free(q);
97          return head;
98
99
100     }
101
102 }
103
104 > int main()···
```

Line: 102 Col: 2

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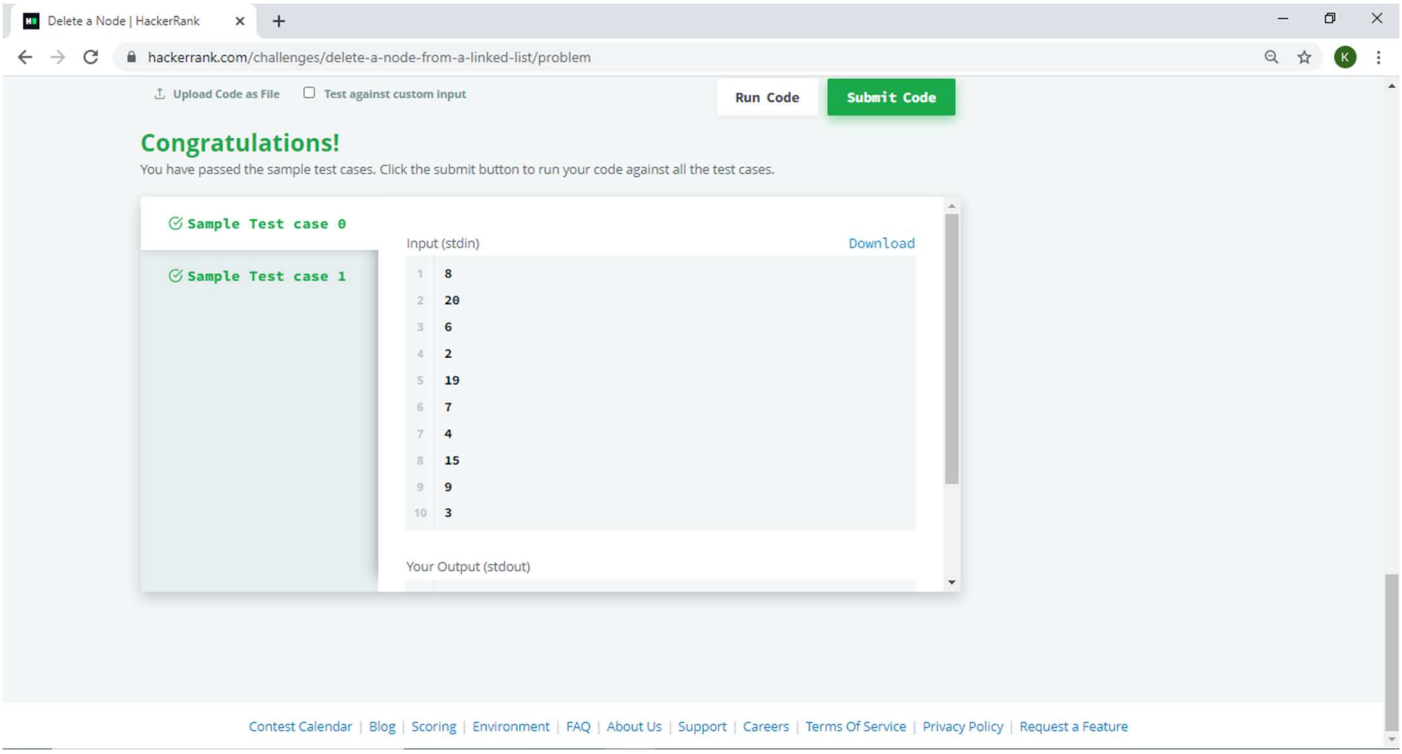
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You have passed the sample test cases. Click the submit button to run your code against all the test cases.
Sample Test case 0
Sample Test case 1
Input (stdin)
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1 8
2 20
3 6
4 2
5 19
6 7
7 4
8 15
9 9
10 3
Your Output (stdout)