Insert a node at a specific position in a linked list

```
#include <bits/stdc++.h>
using namespace std;
class SinglyLinkedListNode {
    public:
        int data;
        SinglyLinkedListNode *next;
        SinglyLinkedListNode(int node data) {
            this->data = node data;
            this->next = nullptr;
        }
};
class SinglyLinkedList {
    public:
        SinglyLinkedListNode *head;
        SinglyLinkedListNode *tail;
        SinglyLinkedList() {
            this->head = nullptr;
            this->tail = nullptr;
        void insert node(int node data) {
            SinglyLinkedListNode* node = new
SinglyLinkedListNode(node data);
            if (!this->head) {
                this->head = node;
            } else {
                this->tail->next = node;
            }
            this->tail = node;
        }
};
void print singly linked list(SinglyLinkedListNode* node, string
sep, ofstream& fout) {
    while (node) {
        fout << node->data;
```

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node = node->next;
        if (node) {
            fout << sep;
        }
    }
}
void free singly linked list(SinglyLinkedListNode* node) {
    while (node) {
        SinglyLinkedListNode* temp = node;
        node = node->next;
        free(temp);
    }
}
 * Complete the 'insertNodeAtPosition' function below.
^{\star} The function is expected to return an
INTEGER SINGLY LINKED LIST.
 * The function accepts following parameters:
 * 1. INTEGER SINGLY LINKED LIST llist
 * 2. INTEGER data
 * 3. INTEGER position
 * /
 * For your reference:
 * SinglyLinkedListNode {
      int data;
       SinglyLinkedListNode* next;
 * };
 * /
SinglyLinkedListNode* insertNodeAtPosition(SinglyLinkedListNode*
llist, int data, int position) {
    SinglyLinkedListNode* newNode=new SinglyLinkedListNode(data);
    if (position==0) {
        newNode->next=llist;
        return newNode;
    SinglyLinkedListNode* temp=llist;
```

```
for(int i=0;i<position-1;i++){</pre>
        temp=temp->next;
    newNode->next=temp->next;
    temp->next=newNode;
    return llist;
}
int main()
    ofstream fout(getenv("OUTPUT_PATH"));
    SinglyLinkedList* llist = new SinglyLinkedList();
    int llist count;
    cin >> llist count;
    cin.ignore(numeric limits<streamsize>::max(), '\n');
    for (int i = 0; i < llist count; i++) {</pre>
        int llist item;
        cin >> llist item;
        cin.ignore(numeric limits<streamsize>::max(), '\n');
        llist->insert node(llist item);
    }
    int data;
    cin >> data;
    cin.ignore(numeric limits<streamsize>::max(), '\n');
    int position;
    cin >> position;
    cin.ignore(numeric limits<streamsize>::max(), '\n');
    SinglyLinkedListNode* llist head =
insertNodeAtPosition(llist->head, data, position);
    print singly linked list(llist head, " ", fout);
    fout << "\n";
    free singly linked list(llist head);
    fout.close();
   return 0;
}
```