

Code:

```
#include <stdio.h>
#include <stdlib.h>

struct Node{
    int data;
    struct Node *next;
};

struct Node *head = NULL;

void ins(int position) {
    if (position < 1) {
        printf("Invalid position\n");
        return;
    }
    struct Node *temp = head;
    if (position == 1) {
        head = temp->next;
        free(temp);
        return;
    }

    for (int i = 1; i < position - 1 && temp != NULL; i++) {
        temp = temp->next;
    }
    if (temp == NULL || temp->next == NULL) {
        printf("Position out of range\n");
        return;
    }

    struct Node *newNode = (struct Node*)malloc(sizeof(struct Node));
    newNode->data = 25;
    newNode->next = temp->next; temp->next= newNode;
}

int main() {

    struct Node *first, *second;

    head = (struct Node*)malloc(sizeof(struct Node));
    first = (struct Node*)malloc(sizeof(struct Node));
    second = (struct Node*)malloc(sizeof(struct Node));

    head->data = 5;
    head->next = first;

    first->data = 10;
    first->next = second;

    second->data = 15;
    second->next = NULL;

    ins(2);

    struct Node *temp = head;
    while(temp != NULL) {
        printf("%d ", temp->data);
        temp = temp->next;
    }

    return 0;
}
```

```
return;
}
struct Node *temp = head;
if (position == 1) {
    head = temp->next;
    free(temp);
    return;
}

for (int i = 1; i < position - 1 && temp != NULL; i++) {
    temp = temp->next;
}
if (temp == NULL || temp->next == NULL) {
    printf("Position out of range\n");
    return;
}

struct Node *newNode = (struct Node*)malloc(sizeof(struct Node));
newNode->data = 25;
newNode->next = temp->next; temp->next= newNode;
}

int main() {

    struct Node *first, *second;

    head = (struct Node*)malloc(sizeof(struct Node));
    first = (struct Node*)malloc(sizeof(struct Node));
    second = (struct Node*)malloc(sizeof(struct Node));

    head->data = 5;
    head->next = first;

    first->data = 10;
    first->next = second;

    second->data = 15;
    second->next = NULL;

    ins(2);

    struct Node *temp = head;
    while(temp != NULL) {
        printf("%d ", temp->data);
        temp = temp->next;
    }

    return 0;
}
```

Output:

```
miruthi@Miruthis-MacBook-Air DSA % gcc insert.c -o insert
[miruthi@Miruthis-MacBook-Air DSA % ./insert
5 25 10 15 %
miruthi@Miruthis-MacBook-Air DSA %
```

