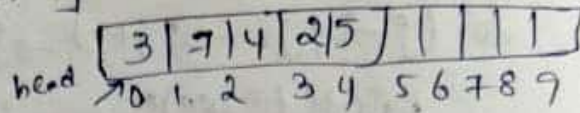


Assignment - 2

1. Write a program for deleting an element at the beginning and from any position?

Deleting at beginning



```
if (head == NULL) return;  
return  
head = temp;  
head = (*head) → next  
for (i = n-1; i >= 0; i--)  
    del(temp)  
}
```

Deleting at any position:

void delete-any()

```
{  
    int key;  
    if (head → link == NULL)  
    {  
        Pf("In Empty linked list. Deletion not possible.");  
    }  
    else  
    {  
        Pf("\n Enter the data of node to be deleted:");  
        Pf("\n .d", &key);  
        Ptr = head;  
        while ((Ptr → link != NULL) && (Ptr → data != key))  
        {  
            Ptr1 = Ptr;  
            Ptr = Ptr → link;  
        }  
        if (Ptr → data == key) {  
            Ptr1 → link = Ptr → link;  
            free(Ptr);  
        }  
    }  
}
```

2. Write the program for printing the array after rotating it k times towards left, where k would be taken as user input.

```
void leftRotatebyOne (int arr[], int d) {
    int i;
    for (i=0; i<d; i++)
        leftRotatebyOne (arr, n);
}

void leftRotatebyOne (int arr[], int n) {
    int temp = arr[0];
    for (i=0; i<n-1; i++)
        arr[i] = arr[i+1];
    arr[i] = temp;
}

void printArray (int arr[], int n) {
    int i;
    for (i=0; i<n; i++)
        printf("%d", arr[i]);
}

int main() {
    int arr[] = {1, 2, 3, 4, 5, 6, 7};
    leftRotate (arr, 2, 7);
    printArray (arr, 7);
    return 0;
}
```

Output:

1	2	3	4	5	6	7
---	---	---	---	---	---	---

 → input

3	4	5	6	7	1	2
---	---	---	---	---	---	---