Question 1

```
#include <stdio.h>
#include <stdlib.h>
typedef struct Node
  int data;
  struct Node *next;
}node;
node *create(int x)
{
  node *new=(node*)malloc(sizeof(node));
  new->data=x;
  new->next=NULL;
  return new;
}
node* insert_at_beginning(node* head,int x)
{
  node* new=create(x);
  new->next=head;
  head=new;
  return head;
}
```

```
node *insert_any(node* head,int x, int val)
  if (val == 1)
  {
    return insert_at_beginning(head,x);
  }
  node *new=create(x);
  node* temp=head;
  if(!head)
  {
    head=new;
    return head;
  for (int i=0;i<val-2;i++)
  {
   temp=temp->next;
  }
  node *replace = temp->next;
  temp->next = new;
  new->next = replace;
  return head;
}
```

```
int main()
  struct Node *head = NULL;
  struct Node *second = NULL;
  struct Node *third = NULL;
  // allocate 3 nodes in the heap
  head = (struct Node *)malloc(sizeof(struct Node));
  second = (struct Node *)malloc(sizeof(struct Node));
  third = (struct Node *)malloc(sizeof(struct Node));
  head->data = 1; // assign data in first node
  head->next = second; // Link first node with second
  second->data = 2; // assign data to second node
  second->next = third;
  third->data = 3; // assign data to third node
  third->next = NULL;
  int position, value;
  printf("Enter a number of position: ");
  scanf("%d", position);
  printf("Enter a value: ");
  scanf("%d", value);
```

```
head=insert_any(head,value,position);
return 0;
}
```

Question 2

```
node *delete_beg(node *head)
{
   if(!head)
    return head;
   node *temp = head;
   temp = temp->next;
   free(head);
   head = temp;
   return temp;
}
```

Question 3

```
node* delete_end(node* head)
{
  if(!head || !head->next)
  {
    free(head);
    return NULL;
}
```

```
node* temp=head;
node* previous=NULL;
while(temp->next)
{
    previous=temp;
    temp=temp->next;
}
free(previous->next);
previous->next=NULL;
return head;
}
```