DS LAB TEST - 2

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3D Batch-2

```
void insert ()
{
   struct node * newnode;
   newnode = (struct node *) malloc (size of (struct node));
   printf ("Enter USN");
   scanf ("%.s", newnode -> USN);
    printf (" Enter name");
   scanf ("%.s", newnode -> name);
  newnode -> next = NULL;
  newnode -> prev = NULL;
    if (head = = NULL)
  {
     head = newnode;
   }

~~for~~ else
    {
     newnode -> next = head;
     head -> prev = newnode;
     head = newnode;
    }

}
```

```
void delete_USN()
{
  struct node * temp;
  int delete_USN
  if (head == NULL)
  {
    printf("Empty list of USN's");
    return;
  }

  printf("Enter the USN to be deleted");
  scanf("%s", delete_USN);
  temp = head;
  while (temp -> USN != delete_USN)
  {
    temp = temp -> next;
    if (temp == NULL)
    {
      printf("Entered USN not found");
      break;
    }
  }
  if (temp == head)
  {
    head = head -> next;
  }
  else if
```

```
else if (temp -> next = NULL)
{
    temp = temp -> prev
    temp -> next = NULL;
}


else
{
  temp -> prev -> next = temp -> next;
  temp -> next -> prev = temp -> prev;
}

}
```