For more questions: https://diuqbank.com/uploader: Souroy Biswas

Department of Software Engineering Faculty of Science & Information Technology Lab Final, Spring 2024

Course Code: SE132, Course Title: Data Structures

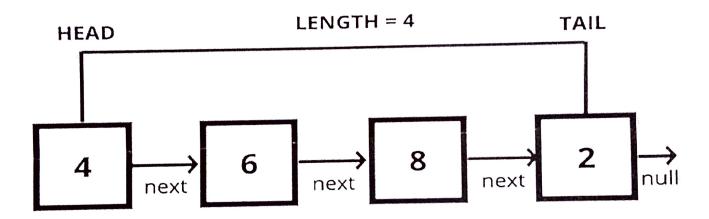
Level: 2 Term: 2 Section: HI Instructor: RKN

## 1. Suppose you have an array of

1	"Tom"	"Peter"	"John"	"Clark"	"Harry"	"Simu"							
-1	10111	10101	201111	CHAIN	1 1 1 1 1	and the second of the second o							

- Write a code for replacing "Clark" in this array with "Muller".
- "Simu" was left out of the array group, leaving a space in the array, Now you want to write a code that will move the empty space in the first of that array.

2.



Write a program that will create a linkedlist as shown in the picture above.

3.

Agriculture and American	1	2	3	4	5	6	7	8	9	10

Write a program to find 3 in this array using binary search.

```
For more questions: https://diugbank.com | uploader: Sourov Biswas 4. Complete the following Code
#include <stdio.h>
#include <stdlib.h>
struct node {
   int item;
   struct node* left:
   struct node* right;
};
void preorderTraversal() {
}
 struct node* createNode(int data) {
   struct node* newNode = (struct node*)malloc(sizeof(struct node));
   newNode->item = data;
   newNode->left = NULL;
   newNode->right = NULL;
    return newNode;
}
 struct node* insertLeft() {
}
struct node* insertRight() {
}
 int main() {
   struct node* root = createNode(90);
   insertLeft(root, 35);
   insertRight(root, 15);
   insertLeft(root->left, 500);
   preorderTraversal(root);
   return 0;
}
```