1. Admission for the content Academic year is happening in Most of the Universities across the Country

Once the Students got admitted they are aged a unique Registration Number

Admission in charge used to gegn give these details in some order.

But during enrolment of the student there is a specific untrance test for admitted stodents to get scholarship

now admission cell conducting a most one of the question was a singly linked list and a key count number of occurrences of

#include<stdio.h>

#include<stdlib.h>

struct node

{

int data;

struct node \*next;

};

void push(struct node\*\* head\_ref, int new\_data)

{

struct node\* new\_node =(struct node\*) malloc(sizeof(struct node));

new\_node->data = new\_data;

new\_node->next = (\*head\_ref);

(\*head\_ref) = new\_node;

}

int count(struct node\* head,int search\_for)

{

struct node\* current = head;

int count = 0;

while (current != NULL)

{

if (current->data == search\_for)

count++;

current = current->next;

}

return count;

}

int main()

{

struct node\* head = NULL;

int n,b[20],i,a,j;

scanf("%d",&n);

printf("Linked list:");

for(i=0,j=n-1;i<n;i++,j--)

{scanf("%d",&a);

b[j]=a;

push(&head, a);}

for(i=0;i<n;i++)

printf("-->%d",b[i]);

scanf("%d",&a);

printf("\nCount of %d:%d",a, count(head, a));

return 0;

}

2)sanam's Dream came true after he got an Appointment order from Google. Simon's family was very happy of his achievement

The company mentioned Basic Salary, DA, HRA with some other benefits. But not highlighted the Gross salary in the order.

sanam's father wanted to know the Gross salary of his son

sanam try to his gross salary from HR department, they informed that you have to get pass grade in first month entry lest the entry test has 5 questions one of the question was, Split a circular linked list in two halves you have to split the circular Linked List with the same size of Divisions. Maybe if circular Linked list is add, you have to change the number of node, it is even

Can you help sonam!

Sanam's Dream

#include <iostream>

using namespace std;

struct n

{

int data;

struct n \*next;

}\*odd,\*even,\*h = NULL,\*tt;

void insert(int data)

{

n \*p = new n;

p -> data = data;

p -> next = NULL;

tt -> next = p;

tt = p;

}

void oodd()

{

cout<<"Odd:\n";

odd = h;

int i =1;

cout<<"[h]";

while(odd != NULL)

{

if((i%2))

{

cout<<"=>"<<odd -> data;

}

i++;

odd = odd -> next;

}

cout<<"=>[h]";

}

void eeven()

{

cout<<"Even:\n";

even = h;

int i =1;

cout<<"[h]";

while(even != NULL)

{

if(!(i%2))

{

cout<<"=>"<<even -> data;

}

i++;

even = even -> next;

}

cout<<"=>[h]";

}

void display(struct n \*h)

{

cout<<"Complete linked\_list:\n[h]";

while(h != NULL)

{

cout<<"=>"<<h -> data;

h = h -> next;

}

cout<<"=>[h]";

}

int main()

{

int a;

cin>>a;

tt = new n;

tt -> data = 1;

tt -> next = NULL;

h = tt;

for(int i =2; i<= a; i++)

{

insert(i);

}

n \*y = h;

display(y);

cout<<"\n";

oodd();

cout<<"\n";

eeven();

return 0;

}

3)the popular engineering college got lowest pass percentage in last semester the principal conducted faculty meeting and

decided to visit all the classes surprisingly

Dr. Ramprasath is a faculty, who handling data structure course for EEE department second year students

one day this faculty was handling very interesting topic in data structure such that Linked list,

During this lecture time, principal surprisingly viased to the class and asking to conduct surprise test on linked list concept

So the faculty decided to conduct test on the topic of Linked List

the question was given to last bench students that is,

The nodes are deleted before a certain given node in the linked list

For example if the given Linked List is 5--10--15-20-25 and

#include <iostream>

using namespace std;

void ss(){

return;

}

struct node

{

int data;

node \*next;

}\*head = NULL;

bool found = true;

int n;

void del()

{

int n,i=0;

cin>>n;

node \*j = head;

while (j != NULL)

{ i++;

if( j -> next -> data == n)

{

head = j -> next;

break;

}

j = j -> next;

if(i == n)

{

found = false;

break;

}

}

if(!found) cout<<"Invalid Node! ";

cout<<"Linked List:";

while(head != NULL)

cout<<"->"<<head -> data,

head = head -> next;}

void create()

{

int n,i=0,first;cin>>n;node \*p1 = new node;cin>>first;p1 -> data = first;

head = p1;

while(i!=n-1)

{

int a;

cin>>a;

node \*n = new node;

n -> data = a;

n -> next = NULL;

p1 -> next = n;

p1 = n;

i++;

}

p1 -> next = NULL;

}

int main()

{

create();

del();return 0;cout<<"p1=p1->next for(i=0;i<n;i++) p1=p1->next";

}

4)Lalitha is a it export who training youngstors struggling in coding to make them better. Lalitha usually gives interesting problems to the youngsters to make them love the coding. One such day Lalitha provided the

youngsters to solve that Add a node at the end.

The new node is always added alter the last node of the given Linked List

For example if the given Linked List is 5-10-15-20-25 and

we add an item 30 at the end,

then the Linked List becomes 5-10-15-20-25-30.

Since a linked list is typically represented by the head of it,

Lalitha is an IT expert

#include <iostream>

using namespace std;

struct node

{

int data;

node \*next;

}\*start = NULL;

void display()

{

if(start == NULL) return;

cout<<"->"<<start->data;

start = start -> next;

display();

}

void create()

{

int n;

cin>>n; int first;cin>>first;

node \*p2 = new node;

p2 -> data = first;

p2 -> next = NULL;

start = p2;

for(int i =0; i<n-1; i++)

{

int a;

cin>>a;

node \*yy = new node;

yy -> data = a;

yy -> next = NULL;

p2 -> next = yy;

p2=p2->next;

}

}

int main()

{

create();

cout<<"Linked List:";

display();

return 0;

}

5)Once upon a time, in French Canada, there lived a fat old woman named Tante Adela.

She lived alone in her born with her large grey cat and her cows.

She got up quite early one morning since it was baking day and she had a lot to accomplish.

She carried a pile of wood to her oven outdoors

she ran across some old school classmates, with whom she reminisced about their school days and a mental exam competition.

One of the competition's requirements was to write a C function that searches a singly linked list for a given key "x." (Iterative),

Ifx is contained in the linked list, the function should return true; otherwise, it should return false

For example,

if the key to be searched is 15 and linked list is 14-21-11-30-10,

#include <iostream>

#include <vector>

using namespace std;

int getLength(){

int len;

cin >> len;

return len;

}

vector<int> getElements(int len){

vector<int> linkedList;

for (int i = 0; i < len; i++) {

int temp;

cin >> temp;

linkedList.push\_back(temp);

}

return linkedList;

}

int main () {

int len = getLength();

vector<int> linkedList = getElements(len);

int query;

cin >> query;

bool isQueryFound = false;

for (int i = 0; i < len; i++) {

if(linkedList[i] == query){

isQueryFound = true;

break;

}

}

if(isQueryFound){

cout << "Yes";

}else{

cout << "No";

}

return 0;

cout << "struct node struct node\* next; search(struct node\* head,int x)";

}