Muhammad kaleem

57362

Q:

#include<iostream>

using namespace std;

class Node {

private:

int sap;

Node\* link;

public:

Node(int value)

{

sap = value;

link = NULL;

}

void setSap(int value)

{

sap = value;

}

void setLink(Node\* newlink)

{

link = newlink;

}

int getSap()

{

return sap;

}

Node\* getLink()

{

return link;

}

};

class List {

private:

Node\* head;

Node\* tail;

public:

List()

{

head = NULL;

tail = NULL;

}

void HEAD(int value)

{

if (head == NULL)

{

head = new Node(value);

tail = head;

}

else

{

Node\* temp = new Node(value);

temp->setLink(head);

head = temp;

}

}

void TAIL(int value)

{

if (head == NULL)

{

head = new Node(value);

tail = head;

}

else

{

Node\* temp = new Node(value);

tail->setLink(temp);

tail = temp;

}

}

bool search(int value)

{

Node\* temp = head;

while (temp != NULL)

{

if (temp->getSap() == value)

{

cout << "found.\n";

return true;

}

temp = temp->getLink();

}

cout << "not found .\n";

return false;

}

void print()

{

Node\* temp = head;

while (temp != NULL)

{

cout << temp->getSap() << endl;

temp = temp->getLink();

}

}

};

int main()

{

List l1;

int choice;

do {

cout << "1) ADD .\n";

cout << "2) Print .\n";

cout << "3) Search .\n";

cout << "enter a choice :";

cin >> choice;

switch (choice)

{

case 1:

int value;

cout << "enter sap: ";

cin >> value;

l1.HEAD(value);

break;

case 2:

l1.print();

break;

case 3:

int data;

cout << "enter to search :";

cin >> data;

l1.search(data);

break;

}

} while (true);

}

Output:

