Doubly Linked List Homework 4

1. Given the following C++ program:

a) What is printed by the program?

b) **Draw a diagram** of the list of nodes showing what pointers p1, p2, p3, and p4,and each pointer in each node points to.

#include<iostream>

using namespace std;

struct Node{

int data;

Node\* after; Node\* before;

};

int main()

{

Node\*p1,\*p2,\*p3,\*p4;

int x;

p1=new Node;   
p2=new Node;   
p3=new Node;

p1->data=123;  
 p2->data=456;   
p3->data=33;

p1->after=p2;

p1->before=p3;

x=p1->before->data;

cout<<x<<endl;

p3->after=p1;

x=p3->after->data;

cout<<x<<endl;

p4=p2;

x=p4->data;

cout<<x<<endl;

return 0;

}