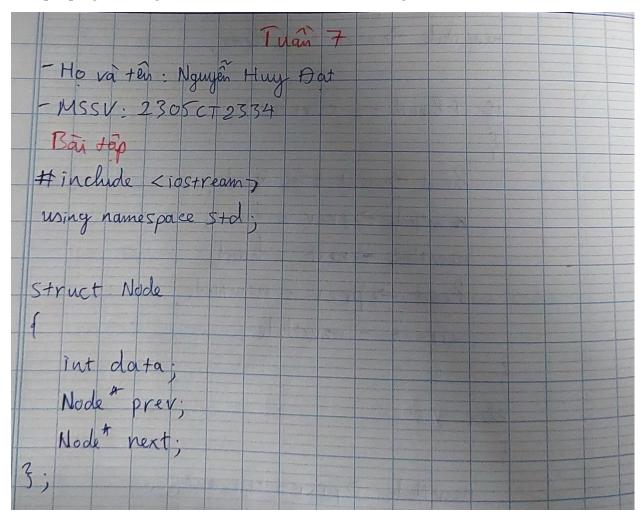
Nội dung tuần 7:

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Viết chương trình dùng phương pháp Doubly Linked List.

Cho phép người dùng bấm từ 1 tới 4 thực hiện chức năng sau:



void Tao Dank Sach (Node # & head) int array [8] = {8, 7, 9, 1, 2, 12, 10, 43; int size = size of (array) / size of (array [0]); Node * current = head; for (int i= 0; i < size; i++) Node new Node - new Node; new Node -> data = array [i]; new Node > prev = null ptr; new Node -> next = nullptr; if (head == current) head -> next = new Node newNode > prev = head new Node -> next = head, head -> prev = new Node. current = new Node; else new Node -> prev = current; current -> next = new Node.

new Node -> next = head; head > prev = new Node; current = new Node; 3 cout ce" Da tao thanh công danh sach." << endl. Node to = head -> next; While (to ! = head) cout << to > data << 11 11 to = to -> next; cout exendl; Vo id Timkiem (Nocle * & head) int Input, Index = 1; cout <5 " Xin moi nhap phan tu can tim Kiem: "; cin >> Input; Node *current = head -> hext. While (current ! - head) is (current -> data == Input)

cout ce" Da tim thay phan to " ce Input ce " toi viti es Index es endl; return; else current = current -> next; Index ++; cout << " Khong tim thay phan to " << Input << " trong dans Sorch " << endl; 3 Void Them Phan Tu (Node + & head) int vi Tri, gia Tri, cont ex " Xin moi whap vi tri can them vao." cin >> vi Tri; cout co " Xin moi whap gia tri can them vao: cin >> giaTri. Node * nen Mode = new Mode: nen Node - data = gratri;

Node * current = heard; int current Index ++; new Mode -> prev = current; new Node -> next = current -> next; current -> next -> prev = new Node; current -> next = new Node; < graTri < " vao vitri Cout << " Da them phan tu" ce vi Tri ce endl; cont ccendl; Void Xoa Phan Tu (Node * & head) int vi Tri; cout << " xin moi nhap vi tri can xoa: "; cin >> vi Tri; Node "current = head -> next int current Index = 1. While (current !- head && current Index < viTri)

current = current - next current Index ++; is (current == head) cout ex" vi tri can xou Khong hop le" << endl; return; current > prev -> next = current > next; corrent -> next -> prev - current -> prev; delete current; cout ce" Da xou phan tu tai vitri " ce vi Tri ce endl; void Xoa Tat Ca (Node & head) Node *arrent = head > next; while (current != head) Node Temp = current current = current -> next; delete temp;

head - prev = head; head I next = head, cout < " Da xoa tout ca phan to trong down sach" < (end) int main () cout ex " xin moi nhap lua chon sau: " « end! cout L« "1 x Tao day lien Ket. " (endl; cout << "2. Tim phan tu trong day. " << endl. couttee "3. Them phan tu vao trong day " ccendl: cout << 4 xoa phan tu trong day. " ccendl; cout ce "5. You tat ca phan tu. " cc endl; int option = 6 Node * head - neu Node. head > prev = head; head -> next - head While (option > 5) cont cc 'Xin moinhap: "; Cin >>option;

Switch (option) case 1: Tao Danh Sach (head) break; case 2: Tac Darch Sach (head) cont ecendl; Tim Kiem Chead); loreak. case 3: Themphan Tu (head); break; Case 4: Xoa Phan Tu (head) break; case 5. Xocitat Ca (head); loreak; default: break; delete head return o;