**Stack**

#include <iostream>

#include <stack>

using namespace std;

int main()

{

stack<int> stack1;

stack1.push(100);

stack1.push(200);

stack1.push(300);

stack1.push(400);

stack1.push(500);

stack1.pop();

stack1.pop();

while (!stack1.empty())

{

cout << "Element =" << stack1.top() << endl;

stack1.pop();

}

}

**Queue**

#include <iostream>

#include <queue>

using namespace std;

int main()

{

queue<int> queue2;

queue2.push(0);

queue2.push(1);

queue2.push(2);

queue2.push(3);

queue2.push(4);

queue2.pop();

cout << "Elements of the queue are:";

while (!queue2.empty())

{

cout << ' ' << queue2.front();

queue2.pop();

}

}

**Linked list**

#include <iostream>

using namespace std;

struct Node {

int data;

struct Node\* next;

};

struct Node\* head = NULL;

void insert(int new\_data) {

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

new\_node->data = new\_data;

new\_node->next = head;

head = new\_node;

}

void display() {

struct Node\* ptr;

ptr = head;

while (ptr != NULL) {

cout << ptr->data << " ";

ptr = ptr->next;

}

}

int main() {

insert(3);

insert(1);

insert(7);

insert(2);

insert(9);

cout << "The linked list is: ";

display();

return 0;

}

**Priority queue**

#include<iostream>

#include <queue>

using namespace std;

void displaypq(priority\_queue<int> pq)

{

priority\_queue<int> pqueue = pq;

while (!pqueue.empty())

{

cout << '\t' << pqueue.top();

pqueue.pop();

}

cout << '\n';

}

int main()

{

priority\_queue<int> pq;

pq.push(1);

pq.push(3);

pq.push(5);

pq.push(7);

pq.push(9);

cout << "Size of the queue(pq.size()): " << pq.size();

cout << "\nTop element of the queue(pq.top()): " << pq.top();

cout << "\nThe priority queue pq is : ";

displaypq(pq);

cout << "\nPriority queue, after pq.pop() operation : ";

pq.pop();

displaypq(pq);

return 0;

}

**Array**

#include <iostream>

using namespace std;

int main() {

int numbers[5] = { 7, 5, 6, 12, 35 };

cout << "The numbers are: ";

for (const int& n : numbers) {

cout << n << " ";

}

cout << "\nThe numbers are: ";

for (int i = 0; i < 5; ++i) {

cout << numbers[i] << " ";

}

return 0;

}