#include <bits/stdc++.h>

using namespace std;

// Node of a doubly linked list

struct Node {

    int data;

    struct Node\* prev, \*next;

};

// function to create and return a new node

// of a doubly linked list

struct Node\* getNode(int data)

{

    // allocate node

    struct Node\* newNode =

          (struct Node\*)malloc(sizeof(struct Node));

    // put in the data

    newNode->data = data;

    newNode->prev = newNode->next = NULL;

    return newNode;

}