

# Rajalakshmi Engineering College

Name: akshaya d  
Email: 241901002@rajalakshmi.edu.in  
Roll no: 241901002  
Phone: 9363744696  
Branch: REC  
Department: I CSE (CS) FA  
Batch: 2028  
Degree: B.E - CSE (CS)

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## NeoColab\_REC\_CS23231\_DATA STRUCTURES

### REC\_DS using C\_Week 3\_COD\_Question 1

Attempt : 2  
Total Mark : 10  
Marks Obtained : 10

#### Section 1 : Coding

##### 1. Problem Statement

In a coding competition, you are assigned a task to create a program that simulates a stack using a linked list.

The program should feature a menu-driven interface for pushing an integer to stack, popping, and displaying stack elements, with robust error handling for stack underflow situations. This challenge tests your data structure skills.

##### ***Input Format***

The input consists of integers corresponding to the operation that needs to be performed:

Choice 1: Push the integer value onto the stack. If the choice is 1, the following input is a space-separated integer, representing the element to be pushed onto

the stack.

Choice 2: Pop the integer from the stack.

Choice 3: Display the elements in the stack.

Choice 4: Exit the program.

### ***Output Format***

The output displays messages according to the choice and the status of the stack:

If the choice is 1, push the given integer to the stack and display the following:  
"Pushed element: " followed by the value pushed.

If the choice is 2, pop the integer from the stack and display the following:  
"Popped element: " followed by the value popped.

If the choice is 2, and if the stack is empty without any elements, print "Stack is empty. Cannot pop."

If the choice is 3, print the elements in the stack: "Stack elements (top to bottom): " followed by the space-separated values.

If the choice is 3, and there are no elements in the stack, print "Stack is empty".

If the choice is 4, exit the program and display the following: "Exiting program".

If any other choice is entered, print "Invalid choice".

Refer to the sample input and output for the exact format.

### **Sample Test Case**

Input: 1 3

1 4

3

2

3

4

Output: Pushed element: 3

Pushed element: 4

Stack elements (top to bottom): 4 3

Popped element: 4

Stack elements (top to bottom): 3

Exiting program

### **Answer**

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
struct Node {  
    int data;  
    struct Node* next;  
};
```

```
struct Node* top = NULL;
```

```
// You are using GCC
```

```
void push(int value) {  
    struct Node* newNode=(struct Node*)malloc(sizeof(struct Node));  
    newNode->data=value;  
    newNode->next=top;  
    top=newNode;  
    printf("Pushed element: %d\n",value);  
}
```

```

void pop() {
    if(top==NULL){
        printf("Stack is empty.Cannot pop.\n");
    }
    else{
        struct Node* temp=top;
        printf("Popped element:%d\n",temp->data);
        top=top->next;
        free(temp);
    }
}

```

```

void displayStack() {
    if(top==NULL){
        printf("Stack is empty\n");
    }
    else{
        struct Node* temp=top;
        printf("Stack elements(top to bottom): ");
        while(temp!=NULL){
            printf("%d\n",temp->data);
            temp=temp->next;
        }
    }
}

```

```

int main() {
    int choice, value;
    do {
        scanf("%d", &choice);
        switch (choice) {
            case 1:
                scanf("%d", &value);
                push(value);
                break;
            case 2:
                pop();
                break;
            case 3:
                displayStack();
                break;
            case 4:
                printf("Exiting program\n");

```

```
        return 0;
    default:
        printf("Invalid choice\n");
    }
} while (choice != 4);

return 0;
}
```

**Status :** Correct

**Marks :** 10/10

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## NeoColab\_REC\_CS23231\_DATA STRUCTURES

### REC\_DS using C\_Week 3\_COD\_Question 2

Attempt : 1  
Total Mark : 10  
Marks Obtained : 10

#### Section 1 : Coding

##### 1. Problem Statement

Sanjeev is in charge of managing a library's book storage, and he wants to create a program that simplifies this task. His goal is to implement a program that simulates a stack using an array.

Help him in writing a program that provides the following functionality:

Add Book ID to the Stack (Push): You can add a book ID to the top of the book stack. Remove Book ID from the Stack (Pop): You can remove the top book ID from the stack and display its details. If the stack is empty, you cannot remove any more book IDs. Display Books ID in the Stack (Display): You can view the books ID currently on the stack. Exit the Library: You can choose to exit the program.

##### **Input Format**

The input consists of integers corresponding to the operation that needs to be performed:

Choice 1: Push the book onto the stack. If the choice is 1, the following input is a space-separated integer, representing the ID of the book to be pushed onto the stack.

Choice 2: Pop the book ID from the stack.

Choice 3: Display the book ID in the stack.

Choice 4: Exit the program.

### **Output Format**

The output displays messages according to the choice and the status of the stack:

1. If the choice is 1, push the given book ID to the stack and display the corresponding message.
2. If the choice is 2, pop the book ID from the stack and display the corresponding message.
3. If the choice is 2, and if the stack is empty without any book ID, print "Stack Underflow"
4. If the choice is 3, print the book IDs in the stack.
5. If the choice is 3, and there are book IDs in the stack, print "Stack is empty"
6. If the choice is 4, exit the program and display the corresponding message.
7. If any other choice is entered, print "Invalid choice"

Refer to the sample output for the exact text and format.

### **Sample Test Case**

Input: 1 19

1 28

2

3

2

4

Output: Book ID 19 is pushed onto the stack

Book ID 28 is pushed onto the stack

Book ID 28 is popped from the stack  
Book ID in the stack: 19  
Book ID 19 is popped from the stack  
Exiting the program

**Answer**

```
// You are using GCC
#include<stdio.h>
#define MAX 100
int stack[MAX];
int top=-1;
void push(int value){
    if(top==MAX-1){
        printf("Stack Overflow\n");
    }
    else{
        stack[++top]=value;
        printf("Book ID %d is pushed onto the stack\n",value);
    }
}
void pop(){
    if(top==--1){
        printf("Stack Underflow\n");
    }
    else{
        printf("Book ID %d is popped from the stack\n",stack[top--]);
    }
}
void display(){
    if(top==--1){
        printf("Stack is empty\n");
    }
    else{
        printf("Book ID in the stack:");
        for(int i=top;i>=0;i--){
            printf("%d\n",stack[i]);
        }
    }
}
int main(){
    int choice,value;
```



```
while(1){
    scanf("%d",&choice);
    switch(choice){
        case 1:
            scanf("%d",&value);
            push(value);
            break;
        case 2:
            pop();
            break;
        case 3:
            display();
            break;
        case 4:
            printf("Exiting the program");
            return 0;
        default:
            printf("Invalid choice\n");
    }
}
return 0;
}
```

**Status :** Correct

**Marks :** 10/10

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## NeoColab\_REC\_CS23231\_DATA STRUCTURES

### REC\_DS using C\_Week 3\_COD\_Question 3

Attempt : 2  
Total Mark : 10  
Marks Obtained : 10

#### Section 1 : Coding

##### 1. Problem Statement

Sharon is developing a programming challenge for a coding competition. The challenge revolves around implementing a character-based stack data structure using an array.

Sharon's project involves a stack that can perform the following operations:

Push a Character: Users can push a character onto the stack. Pop a Character: Users can pop a character from the stack, removing and displaying the top character. Display Stack: Users can view the current elements in the stack. Exit: Users can exit the stack operations application.

Write a program to help Sharon to implement a program that performs the given operations.

***Input Format***

The input consists of integers corresponding to the operation that needs to be performed:

Choice 1: Push the character onto the stack. If the choice is 1, the following input is a space-separated character, representing the character to be pushed onto the stack.

Choice 2: Pop the character from the stack.

Choice 3: Display the characters in the stack.

Choice 4: Exit the program.

### ***Output Format***

The output displays messages according to the choice and the status of the stack:

1. If the choice is 1, push the given character to the stack and display the pushed character having the prefix "Pushed: ".
2. If the choice is 2, undo the character from the stack and display the character that is popped having the prefix "Popped: ".
3. If the choice is 2, and if the stack is empty without any characters, print "Stack is empty. Nothing to pop."
4. If the choice is 3, print the elements in the stack having the prefix "Stack elements: ".
5. If the choice is 3, and there are no characters in the stack, print "Stack is empty."
6. If the choice is 4, exit the program.
7. If any other choice is entered, print "Invalid choice"

Refer to the sample output for formatting specifications.

### ***Sample Test Case***

Input: 2

4

Output: Stack is empty. Nothing to pop.

### ***Answer***

```
#include <stdio.h>
```

```
#include <stdbool.h>
```

```
#define MAX_SIZE 100
```

```
char items[MAX_SIZE];
```

```
int top = -1;
```

```
void initialize() {
```

```
    top = -1;
```

```
}
```

```
bool isFull() {
```

```
    return top == MAX_SIZE - 1;
```

```
}
```

```
bool isEmpty() {
```

```
    return top == -1;
```

```
}
```

```
// You are using GCC
```

```
void push(char value) {
```

```
    if(isFull()){
```

```
        printf("Stack is full.Cannot push.\n");
```

```
        return;
```

```
    }
```

```
    items[++top]=value;
```

```
    printf("Pushed: %c\n",value);
```

```
}
```

```
char pop() {
```

```
    if(isEmpty()){
```

```
        printf("Stack is empty. Nothing to pop.\n");
```

```
        return '\0';
```

```
    }
```

```
    char popped=items[top--];
```

```
    printf("Popped: %c\n",popped);
```

```
    return popped;
```

```
}
```

```
void display() {
```

```
    if(isEmpty()){
```

```
        printf("Stack is empty.\n");
```

```
        return;
```

```
}
```

```
    printf("Stack elements: ");
    for(int i=top;i>=0;i--){
        printf("%c ",items[i]);
    }
    printf("\n");
}

int main() {
    initialize();
    int choice;
    char value;

    while (true) {
        scanf("%d", &choice);
        switch (choice) {
            case 1:
                scanf(" %c", &value);
                push(value);
                break;
            case 2:
                pop();
                break;
            case 3:
                display();
                break;
            case 4:
                return 0;
            default:
                printf("Invalid choice\n");
        }
    }
    return 0;
}
```

**Status :** Correct

**Marks : 10/10**

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## NeoColab\_REC\_CS23231\_DATA STRUCTURES

### REC\_DS using C\_Week 3\_COD\_Question 4

Attempt : 1  
Total Mark : 10  
Marks Obtained : 10

#### Section 1 : Coding

##### 1. Problem Statement

You are a software developer tasked with building a module for a scientific calculator application. The primary function of this module is to convert infix mathematical expressions, which are easier for users to read and write, into postfix notation (also known as Reverse Polish Notation). Postfix notation is more straightforward for the application to evaluate because it removes the need for parentheses and operator precedence rules.

The scientific calculator needs to handle various mathematical expressions with different operators and ensure the conversion is correct. Your task is to implement this infix-to-postfix conversion algorithm using a stack-based approach.

Example

Input:

a+b

Output:

ab+

Explanation:

The postfix representation of (a+b) is ab+.

### ***Input Format***

The input is a string, representing the infix expression.

### ***Output Format***

The output displays the postfix representation of the given infix expression.

Refer to the sample output for formatting specifications.

### ***Sample Test Case***

Input: a+(b\*e)

Output: abe\*+

### ***Answer***

```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
```

```
struct Stack {
    int top;
    unsigned capacity;
    char* array;
};
```

```
struct Stack* createStack(unsigned capacity) {
    struct Stack* stack = (struct Stack*)malloc(sizeof(struct Stack));
    if (!stack)
```

```

        return NULL;

        stack->top = -1;
        stack->capacity = capacity;
        stack->array = (char*)malloc(stack->capacity * sizeof(char));

        return stack;
    }

    int isEmpty(struct Stack* stack) {
        return stack->top == -1;
    }

    char peek(struct Stack* stack) {
        return stack->array[stack->top];
    }

    char pop(struct Stack* stack) {
        if (!isEmpty(stack))
            return stack->array[stack->top--];
        return '$';
    }

    void push(struct Stack* stack, char op) {
        stack->array[++stack->top] = op;
    }

    // You are using GCC
    #include<ctype.h>
    int isOperand(char ch) {
        return isalnum(ch);
    }

    int Prec(char ch) {
        switch(ch){
            case '+':
            case '-':return 1;
            case '*':
            case '/':return 2;
            case '^':return 3;
        }
    }

```



```
return -1;
```

```
}  
  
void infixToPostfix(char* exp) {  
    int i,k;  
    struct Stack* stack=createStack(strlen(exp));  
    for(i=0,k=-1;exp[i];++i){  
        if(isOperand(exp[i])){  
            exp[++k]=exp[i];  
        }  
        else if(exp[i]=='('){  
            push(stack,exp[i]);  
        }  
        else if(exp[i]==')'){  
            while(stack->top!=-1&&peek(stack)!='('){  
                exp[++k]=pop(stack);  
            }  
            pop(stack);  
        }  
        else{  
            while(stack->top!=-1 && Prec(exp[i])<=Prec(peek(stack))){  
                exp[++k]=pop(stack);  
            }  
            push(stack,exp[i]);  
        }  
    }  
    while(stack->top!=-1){  
        exp[++k]=pop(stack);  
    }  
    exp[++k]='\0';  
    printf("%s\n",exp);  
    free(stack->array);  
    free(stack);  
}
```

```
int main() {  
    char exp[100];  
    scanf("%s", exp);  
    infixToPostfix(exp);  
    return 0;
```

}

**Status :** Correct

**Marks : 10/10**

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## NeoColab\_REC\_CS23231\_DATA STRUCTURES

### REC\_DS using C\_Week 3\_COD\_Question 5

Attempt : 1  
Total Mark : 10  
Marks Obtained : 10

#### Section 1 : Coding

##### 1. Problem Statement

Milton is a diligent clerk at a school who has been assigned the task of managing class schedules. The school has various sections, and Milton needs to keep track of the class schedules for each section using a stack-based system.

He uses a program that allows him to push, pop, and display class schedules for each section. Milton's program uses a stack data structure, and each class schedule is represented as a character. Help him write a program using a linked list.

##### ***Input Format***

The input consists of integers corresponding to the operation that needs to be performed:

Choice 1: Push the character onto the stack. If the choice is 1, the following input is a space-separated character, representing the class schedule to be pushed onto the stack.

Choice 2: Pop class schedule from the stack

Choice 3: Display the class schedules in the stack.

Choice 4: Exit the program.

### ***Output Format***

The output displays messages according to the choice and the status of the stack:

- If the choice is 1, push the given class schedule to the stack and display the following: "Adding Section: [class schedule]"
- If the choice is 2, pop the class schedule from the stack and display the following: "Removing Section: [class schedule]"
- If the choice is 2, and if the stack is empty without any class schedules, print "Stack is empty. Cannot pop."
- If the choice is 3, print the class schedules in the stack in the following: "Enrolled Sections: " followed by the class schedules separated by space.
- If the choice is 3, and there are no class schedules in the stack, print "Stack is empty"
- If the choice is 4, exit the program and display the following: "Exiting the program"
- If any other choice is entered, print "Invalid choice"

Refer to the sample output for the exact format.

### ***Sample Test Case***

Input: 1 d

1 h

3

2

3

4

Output: Adding Section: d  
Adding Section: h  
Enrolled Sections: h d  
Removing Section: h  
Enrolled Sections: d  
Exiting program

### **Answer**

```
#include <stdio.h>
#include <stdlib.h>
```

```
struct Node {
    char data;
    struct Node* next;
};
```

```
struct Node* top = NULL;
```

```
// You are using GCC
```

```
void push(char value) {
    struct Node* newNode=(struct Node*)malloc(sizeof(struct Node));
    if(newNode==NULL){
        printf("Stack overflow\n");
        return;
    }
    newNode->data=value;
    newNode->next=top;
    top=newNode;
    printf("Adding Section: %c\n",value);
}
```

```
void pop() {
    if(top==NULL){
        printf("Stack is empty.Cannot pop.\n");
        return;
    }
    struct Node *temp;
    temp=top;
    printf("Removing Section: %c\n",temp->data);
    top=top->next;
```

```
    free(temp);
}

void displayStack() {
    if(top==NULL){
        printf("Stack is empty\n");
        return;
    }
    printf("Enrolled Sections: ");
    struct Node *current=top;
    while(current!=NULL){
        printf("%c ",current->data);
        current=current->next;
    }
    printf("\n");
}

int main() {
    int choice;
    char value;
    do {
        scanf("%d", &choice);
        switch (choice) {
            case 1:
                scanf(" %c", &value);
                push(value);
                break;
            case 2:
                pop();
                break;
            case 3:
                displayStack();
                break;
            case 4:
                printf("Exiting program\n");
                break;
            default:
                printf("Invalid choice\n");
        }
    } while (choice != 4);

    return 0;
}
```

Status : Correct

Marks : 10/10

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## NeoColab\_REC\_CS23231\_DATA STRUCTURES

### REC\_DS using C\_Week 3\_CY

Attempt : 1  
Total Mark : 30  
Marks Obtained : 30

### Section 1 : Coding

#### 1. Problem Statement

Buvi is working on a project that requires implementing an array-stack data structure with an additional feature to find the minimum element.

Buvi needs to implement a program that simulates a stack with the following functionalities:

Push: Adds an element onto the stack. Pop: Removes the top element from the stack. Find Minimum: Finds the minimum element in the stack.

Buvi's implementation should efficiently handle these operations with a maximum stack size of 20.

#### ***Input Format***

The first line of input consists of an integer N, representing the number of



elements to push onto the stack.

The second line consists of N space-separated integer values, representing the elements to be pushed onto the stack.

### ***Output Format***

The first line of output displays "Minimum element in the stack: " followed by the minimum element in the stack after pushing all elements.

The second line displays "Popped element: " followed by the popped element.

The third line displays "Minimum element in the stack after popping: " followed by the minimum element in the stack after popping one element.

Refer to the sample output for the formatting specifications.

### ***Sample Test Case***

Input: 4

5 2 8 1

Output: Minimum element in the stack: 1

Popped element: 1

Minimum element in the stack after popping: 2

### ***Answer***

```
// You are using GCC
#include<stdio.h>
#include<limits.h>
#define MAX 20
int stack[MAX],min_stack[MAX];
int top=-1,min_top=-1;
void push(int val){
    if(top==MAX-1)
        return;
    stack[++top]=val;
    if(min_top==-1||val<=min_stack[min_top])
        min_stack[++min_top]=val;
}
int pop(){
    if(top==-1)
```

```

    return INT_MIN;
    if(stack[top]==min_stack[min_top])min_top--;
    return stack[top--];
}
int get_min(){
    return(min_top===-1)?INT_MIN:min_stack[min_top];
}
int main(){
    int n,x;
    scanf("%d",&n);
    for(int i=0;i<n;i++){
        scanf("%d",&x);
        push(x);
    }
    printf("Minimum element in the stack: %d\n",get_min());
    printf("Popped element: %d\n",pop());
    printf("minimum element in the stack after popping: %d\n",get_min());
    return 0;
}

```

**Status :** Correct

**Marks :** 10/10

## 2. Problem Statement

Suppose you are building a calculator application that allows users to enter mathematical expressions in infix notation. One of the key features of your calculator is the ability to convert the entered expression to postfix notation using a Stack data structure.

Write a function to convert infix notation to postfix notation using a Stack.

### **Input Format**

The input consists of a string, an infix expression that includes only digits(0-9), and operators(+, -, \*, /).

### **Output Format**

The output displays the equivalent postfix expression of the given infix expression.

Refer to the sample output for formatting specifications.

### **Sample Test Case**

Input: 1+2\*3/4-5

Output: 123\*4/+5-

### **Answer**

```
// You are using GCC
#include<stdio.h>
#include<ctype.h>
#include<string.h>
#define MAX 30
char stack[MAX];
int top=-1;
void push(char x){
    if(top<MAX-1){
        stack[++top]=x;
    }
}
char pop(){
    if(top>=0){
        return stack[top--];
    }
    return '\0';
}
char peek(){
    if(top>=0){
        return stack[top];
    }
    return '\0';
}
int pres(char op){
    switch(op){
        case '+':
        case '-':return 1;
        case '*':
        case '/':return 2;
        case '^':return 3;
        default:return 0;
```

```

    }
}
void intopost(char* infix, char* postfix){
    int i, j = 0;
    while(infix[i] != '\0'){
        char token = infix[i];
        if(isdigit(token)){
            while(isdigit(infix[i])){
                postfix[j++] = infix[i++];
            }
            postfix[j++] = ' ';
            i--;
        }
        else if(token == '('){
            push(token);
        }
        else if(token == ')'){
            while(top != -1 && peek() != '('){
                postfix[j++] = pop();
                postfix[j++] = ' ';
            }
            if(top == -1){
                printf("Invalid: Mismatched parantheses\n");
                return;
            }
            pop();
        }
        else if(token == '+' || token == '-' || token == '*' || token == '/'){
            while(top != -1 && pres(token) <= pres(peek())){
                postfix[j++] = pop();
                postfix[j++] = ' ';
            }
            push(token);
        }
        i++;
    }
    while(top != -1){

```

```

        if(peek()=='('){
            printf("Invalid:Mismatched parantheses\n");
            return;
        }
        postfix[j++]=pop();
        postfix[j++]=' ';

    }
    postfix[j]='\0';
}

int main(){
    char infix[MAX],postfix[MAX*2];
    scanf("%s",infix);
    intopost(infix,postfix);
    printf("%s",postfix);
    return 0;
}

```

**Status :** Correct

**Marks :** 10/10

### 3. Problem Statement

Latha is taking a computer science course and has recently learned about infix and postfix expressions. She is fascinated by the idea of converting infix expressions into postfix notation. To practice this concept, she wants to implement a program that can perform the conversion for her.

Help Latha by designing a program that takes an infix expression as input and outputs its equivalent postfix notation.

Example

Input:

(3+4)5

Output:

34+5

**Input Format**

The input consists of a string, the infix expression to be converted to postfix notation.

### **Output Format**

The output displays a string, the postfix expression equivalent of the input infix expression.

Refer to the sample output for the formatting specifications.

### **Sample Test Case**

Input: A+B\*C-D/E

Output: ABC\*+DE/-

### **Answer**

```
// You are using GCC
#include<stdio.h>
#include<ctype.h>
#include<string.h>
#include<stdlib.h>
#define MAX 100
char stack[MAX];
int top=-1;
void push(char x){
    if(top==MAX-1){
        printf("Stack overflow\n");
        return;
    }

    stack[++top]=x;
}
char pop(){
    if(top== -1){
        return '\0';
    }
    return stack[top--];
}

int pres(char op)
```

```

{
    switch(op){
        case '+':
        case '-':return 1;
        case '*':
        case '/':return 2;
        default:return 0;
    }
}

void intopost(const char* infix,char* postfix){
    int i,j=0;
    char token,popped;
    for(i=0;(token=infix[i])!='\0';i++){
        if(isalnum(token)){
            postfix[j++]=token;
        }
        else if(token=='('){
            push(token);
        }
        else if(token==')'){
            {
                while((popped=pop())!='('){
                    postfix[j++]=popped;
                }
            }
        }
        else{
            while(top!=-1 && pres(stack[top])>=pres(token)){
                postfix[j++]=pop();
            }
            push(token);
        }
    }

    while(top!=-1){
        postfix[j++]=pop();
    }
    postfix[j]='\0';
}

int main(){

```

```
char infix[MAX],postfix[MAX];  
fgets(infix,MAX,stdin);  
infix[strcspn(infix,"\\n")]='\\0';  
intopost(infix,postfix);  
printf("%s\\n",postfix);  
return 0;  
}
```

**Status :** Correct

**Marks :** 10/10