

```

#include<stdio.h>
#include<stdlib.h>
int stack[50];

int ch;
void push(void);
void pop(void);
void display(void);
int n,top,no,i;
int main()
{
    top=-1;
    printf("\n Enter the size of stack:");
    scanf("%d",&n);
    printf("\n Please enter the stack operation which you want to perform:");
    printf("\n 1.Push\n 2.Pop\n 3.display\n 4.exit");
    while(ch!='0')
    {
        printf("\n Enter the Choice:");
        scanf("%d",&ch);
        switch(ch)
        {
            case 1:
                push();
                break;
            case 2:
                pop();
                break;
            case 3:
                display();
                break;
            case 4:
                exit(0);
                break;
            default:
                {
                    printf ("\nINVALID CHOICE!");
                }
        }
    }
}

return 0;

```

```

}
void push()
{
    if(top>=n-1)
    {
        printf("\nSTACK OVERFLOW");

    }
    else
    {
        printf(" Enter a value to be inserted/pushed:");
        scanf("%d",&no);
        top++;
        stack[top]=no;
    }
}
void pop()
{
    if(top<=-1)
    {
        printf("\n UNDERFLOW");
    }
    else
    {
        printf("\n The popped element is %d",stack[top]);
        top--;
    }
}
void display()
{
    if(top>=0)
    {
        printf("\n The elements in stack are as follows: \n");
        for(i=top;i>=0;i--)
            printf("\n%d\\",stack[i]);
        printf("\n Press Next Choice");
    }
    else
    {
        printf("\n The stack is empty");
    }
}
}

```

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main.c

```
61 {  
62     if(top<=-1)  
63     {  
64         printf("\n UNDERFLOW");  
65     }  
66 }
```

Input

Enter the size of stack:5

Please enter the stack operation which you want to perform:  
1.Push  
2.Pop  
3.display  
4.exit

Enter the Choice:1  
Enter a value to be inserted/pushed:2

Enter the Choice:1  
Enter a value to be inserted/pushed:3

Enter the Choice:1  
Enter a value to be inserted/pushed:4

Enter the Choice:1  
Enter a value to be inserted/pushed:5

Enter the Choice:1  
Enter a value to be inserted/pushed:6

Enter the Choice:1

STACK OVERFLOW

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main.c

```
61 {  
62     if(top<=-1)  
63     {  
64         printf("\n UNDERFLOW");  
65     }  
66 }
```

Input

Enter a value to be inserted/pushed:6

Enter the Choice:1

STACK OVERFLOW

Enter the Choice:2

The popped element is 6  
Enter the Choice:2

The popped element is 5  
Enter the Choice:2

The popped element is 4  
Enter the Choice:2

The popped element is 3  
Enter the Choice:2

The popped element is 2  
Enter the Choice:2

UNDERFLOW

Enter the Choice:3

Type here to search

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main.c

```
61 {
62     if(top<=-1)
63     {
64         printf("\n UNDERFLOW");
65     }
66 }
```

input

Enter the Choice:1

STACK OVERFLOW

Enter the Choice:2

The popped element is 6

Enter the Choice:2

The popped element is 5

Enter the Choice:2

The popped element is 4

Enter the Choice:2

The popped element is 3

Enter the Choice:2

The popped element is 2

Enter the Choice:2

UNDERFLOW

Enter the Choice:3

The stack is empty

Enter the Choice:

Language C

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