```
∝° Share
                                                                                                   Output
main.c
58
       printi( Stack: \n );
                                                                                                 /tmp/fBoDYsxLrs.o
       for (int i = top; i >= 0; i--)
39
                                                                                                 enter the operation to perform on the stack:
40 -
                                                                                                  Enter:
41
           printf("%d\n", stack[i]);
                                                                                                  1.push the element
42
                                                                                                   2.pop the element
43 }
                                                                                                   3.display operation
44
                                                                                                  4.exit
45 int main()
46 - {
                                                                                                 underflow
        int choice;
48
                                                                                                 === Code Exited With Errors ===
       while(1)
49
50 -
           printf("enter the operation to perform on the stack:\n");
51
           printf("Enter:\n 1.push the element\n 2.pop the element\n 3.display operation\n 4
52
                .exit\n");
           scanf("%d", &choice);
53
54
55
            switch(choice)
56 +
57
                case 1: push();
58
                       break;
59
60
                case 2: pop();
61
                       break;
62
63
               case 3: display();
                       break;
66
               case 4: exit(0);
67
               default: printf("invalid entry!");
70
71 }
72
```

```
∝ Share
main.c
                                                                                           Run
                                                                                                      Output
        printi( Stack: \n );
58
                                                                                                    /tmp/Vr6cEOkiAf.o
39
        for (int i = top; i >= 0; i--)
                                                                                                    enter the operation to perform on the stack:
40 -
                                                                                                    Enter:
            printf("%d\n", stack[i]);
41
                                                                                                     1.push the element
42
                                                                                                     2.pop the element
43 }
                                                                                                     3.display operation
44
                                                                                                     4.exit
45 int main()
46 + {
                                                                                                    enter the element to push:1
        int choice:
47
                                                                                                    push operation successful!
48
                                                                                                    enter the operation to perform on the stack:
        while(1)
49
                                                                                                    Enter:
50 +
                                                                                                     1.push the element
51
            printf("enter the operation to perform on the stack:\n");
                                                                                                     2.pop the element
52
            printf("Enter:\n 1.push the element\n 2.pop the element\n 3.display operation\n 4
                                                                                                     3.display operation
                .exit\n"):
                                                                                                     4.exit
            scanf("%d", &choice);
53
54
                                                                                                    enter the element to push:2
55
            switch(choice)
                                                                                                    push operation successful!
56 +
                                                                                                    enter the operation to perform on the stack:
57
                case 1: push();
                                                                                                    Enter:
58
                        break;
                                                                                                     1.push the element
59
                                                                                                     2.pop the element
60
                case 2: pop();
                                                                                                     3.display operation
                        break:
61
                                                                                                     4.exit
62
                                                                                                    2
63
                case 3: display();
                                                                                                    popped element is 2
64
                        break;
                                                                                                    enter the operation to perform on the stack:
65
                                                                                                    Enter:
66
                case 4: exit(0);
                                                                                                     1.push the element
67
                                                                                                     2.pop the element
68
                default: printf("invalid entry!");
                                                                                                     3.display operation
69
                                                                                                     4.exit
70
                                                                                                    3
71 }
                                                                                                    stack:
72
```

```
∝ Share
                                                                                         Run
main.c
                                                                                                    Output
                                                                                                   enter:
31 void display()
                                                                                                   1. push the element
32 + {
                                                                                                   2.pop the element
33
        if (top == -1)
                                                                                                   3.display operation
34 +
                                                                                                   4.exit
35
            printf("underflow");
36
            exit(1);
                                                                                                   enter the element to push:3
37
                                                                                                   push operation successful!
38
        printf("stack:\n");
                                                                                                   enter the operation to perform on the stack:
        for (int i = top; i >= 0; i--)
39
                                                                                                   Enter:
40 -
                                                                                                   1.push the element
41
            printf("%d\n", stack[i]);
                                                                                                   2.pop the element
42
                                                                                                   3.display operation
43 }
                                                                                                   4.exit
44
45 int main()
                                                                                                   enter the element to push:4
46 + {
                                                                                                   push operation successful!
47
        int choice:
                                                                                                   enter the operation to perform on the stack:
48
                                                                                                   Enter:
49
        while(1)
                                                                                                   1.push the element
50 +
                                                                                                   2.pop the element
            printf("enter the operation to perform on the stack:\n");
51
                                                                                                   3.display operation
            printf("Enter:\n 1.push the element\n 2.pop the element\n 3.display operation\n 4
52
                                                                                                   4.exit
                .exit\n");
                                                                                                   1
            scanf("%d", &choice);
53
                                                                                                   enter the element to push:5
54
                                                                                                   push operation successful!
55
            switch(choice)
                                                                                                   enter the operation to perform on the stack:
56 -
                                                                                                   Enter:
                case 1: push();
57
                                                                                                   1.push the element
                        break:
58
                                                                                                   2.pop the element
59
                                                                                                   3. display operation
60
                case 2: pop();
                                                                                                   4.exit
                        break;
61
62
                                                                                                   overflow
63
                case 3: display();
64
                        break:
                                                                                                  === Code Exited With Errors ===
65
```

```
∝ Share
                                                                                           Run
                                                                                                     Output
main.c
   #include<stdio.h>
                                                                                                   /tmp/XGoojb8amL.o
2 #include<stdlib.h>
                                                                                                    enter the operation to perform on the stack:
3 #define SIZE 5
                                                                                                    Enter:
4 int top = -1, stack[SIZE];
                                                                                                    1.push the element
5 void push()
                                                                                                    2.pop the element
6 - {
                                                                                                    3.display operation
7
                                                                                                    4.exit
       int n:
8
       if (top == SIZE - 1)
                                                                                                   1
9+
                                                                                                   enter the element to push:1
                                                                                                   push operation successful!
10
           printf("overflow");
11
           exit(1);
                                                                                                   enter the operation to perform on the stack:
12
                                                                                                    Enter:
                                                                                                    1.push the element
13
       printf("enter the element to push:");
       scanf("%d", &n);
                                                                                                    2.pop the element
14
                                                                                                    3.display operation
15
       top += 1;
                                                                                                    4.exit
16
        stack[top] = n;
       printf("push operation successful!\n");
17
                                                                                                   1
18 }
                                                                                                   enter the element to push:2
19
                                                                                                   push operation successful!
                                                                                                   enter the operation to perform on the stack:
20 void pop()
21 - {
                                                                                                    Enter:
22
       if (top == -1)
                                                                                                    1.push the element
                                                                                                    2.pop the element
23 +
24
           printf("underflow");
                                                                                                    3.display operation
25
           exit(1);
                                                                                                    4.exit
26
                                                                                                   enter the element to push:3
27
       printf("popped element is %d\n", stack[top]);
                                                                                                   push operation successful!
28
        top--;
                                                                                                   enter the operation to perform on the stack:
29 }
30
                                                                                                    Enter:
31 void display()
                                                                                                    1.push the element
32 + {
                                                                                                    2.pop the element
33
       if (top == -1)
                                                                                                     3.display operation
                                                                                                    4.exit
34 -
           printf("underflow");
35
36
            exit(1);
                                                                                                   enter the element to push:4
```