```
 Press 1 for push, 2 for pop, 3 for peek, 4 for display, 5 to exit
1
Enter the value to be inserted:
2
 Press 1 for push, 2 for pop, 3 for peek, 4 for display, 5 to exit
2
Your popped element is :
2
 Press 1 for push, 2 for pop, 3 for peek, 4 for display, 5 to exit
2
Stack Underflow
 Press 1 for push, 2 for pop, 3 for peek, 4 for display, 5 to exit
```

```
 Press 1 for push, 2 for pop, 3 for peek, 4 for display, 5 to exit
1
Enter the value to be inserted:
2
 Press 1 for push, 2 for pop, 3 for peek, 4 for display, 5 to exit
1
Enter the value to be inserted:
3
 Press 1 for push, 2 for pop, 3 for peek, 4 for display, 5 to exit
1
Enter the value to be inserted:
4
 Press 1 for push, 2 for pop, 3 for peek, 4 for display, 5 to exit
1
Enter the value to be inserted:
5
 Press 1 for push, 2 for pop, 3 for peek, 4 for display, 5 to exit
1
Enter the value to be inserted:
6
 Press 1 for push, 2 for pop, 3 for peek, 4 for display, 5 to exit
1
Enter the value to be inserted:
7
Stack Overflow Press 1 for push, 2 for pop, 3 for peek, 4 for display, 5 to exit
1
```

```
Enter the value to be inserted:
3
 Press 1 for push, 2 for pop, 3 for peek, 4 for display, 5 to exit
1
Enter the value to be inserted:
4
 Press 1 for push, 2 for pop, 3 for peek, 4 for display, 5 to exit
1
Enter the value to be inserted:
5
 Press 1 for push, 2 for pop, 3 for peek, 4 for display, 5 to exit
1
Enter the value to be inserted:
6
 Press 1 for push, 2 for pop, 3 for peek, 4 for display, 5 to exit
1
Enter the value to be inserted:
7
Stack Overflow Press 1 for push, 2 for pop, 3 for peek, 4 for display, 5 to exit
4
The elements of the Stack are:
6
5
4
3
2
 Press 1 for push, 2 for pop, 3 for peek, 4 for display, 5 to exit
3
6 Press 1 for push, 2 for pop, 3 for peek, 4 for display, 5 to exit
```

```
 Press 1 for push, 2 for pop, 3 for peek, 4 for display, 5 to exit
1
Enter the value to be inserted:
3
 Press 1 for push, 2 for pop, 3 for peek, 4 for display, 5 to exit
1
Enter the value to be inserted:
4
 Press 1 for push, 2 for pop, 3 for peek, 4 for display, 5 to exit
1
Enter the value to be inserted:
5
 Press 1 for push, 2 for pop, 3 for peek, 4 for display, 5 to exit
1
Enter the value to be inserted:
6
 Press 1 for push, 2 for pop, 3 for peek, 4 for display, 5 to exit
1
Enter the value to be inserted:
7
Stack Overflow Press 1 for push, 2 for pop, 3 for peek, 4 for display, 5 to exit
4
The elements of the Stack are:
6
5
4
3
2
 Press 1 for push, 2 for pop, 3 for peek, 4 for display, 5 to exit
```

```
int* twoSum (int *nums, int numSize, int target,
                    int *returnSize) {
```

```c
void display () {
  if ( top == -1 ) {
    printf ("stack is empty \n");
  }
  else {
    printf ("The elements of the stack are: \n");
    for (int i = top; i >= 0 ; i--) {
      printf ("%d \n", stack [i]);
    }
  }
}

void main() {
  int choice = 0;
  int value;
  while (choice != 5) {
    printf("Press 1 for push, 2 for pop, 3 for peek,
             4 for display, 5 to exit \n");
    scanf("%d", &choice);
    switch (choice) {
      case 1:
      printf ("Enter the value to be inserted: \n");
      scanf ("%d", &value);
      push (value);
      break;
      case 2:
      pop();
      case 3:
      peek();
      case 4;
      display;
```

```c
#include <stdio.h>
#define N 5
    int stack[N];
    int top = -1;
    void push (int value) {
        if (top==N-1)
        {
            printf("Stack overflow");
        }
        top = top+1;
        stack[top] = value;
    }
    void pop()
    {
        if (top==-1)
        {
            printf("Stack Underflow \n");
        }
        else {
            printf("Your popped element is: \n");
            printf("%d \n", stack[top--]);
        }
    }
    void peek() {
        if (top==-1) {
            printf("Stack Empty \n");
        }
        else {
            printf("%d", stack[top]);
```

```
case 5: break;
dedault:
    printf("Enter the valid option");
    }
}
```

Press 1 for push, 2 for pop, 3 for peek, 4 for display, 5 fn...

1

Enter the value to be inserted

2

Press 1 for push, 2 for pop, 3 for peek, 4 for display, 5 for...

2

Your popped element is:

2

Press 1 for push, 2 for pop, 3 for peek, 4 for display, st...

2

Stack Underflow

Press 1 for push, 2 for pop, 3 for peek, 4 for display, 5 f...

5

=====