```
def reverse_stack(stack):
        # Base case: if stack is empty, return
        if len(stack) == 0:
            return
        # Pop the top element
        top = stack.pop()
        # Reverse the rest of the stack
        reverse_stack(stack)
10
11
12
        # Insert the popped element at the bottom
        insert_at_bottom(stack, top)
13
14
15 def insert_at_bottom(stack, item):
        # Base case: if stack is empty, push the item
16
        if len(stack) == 0:
17 -
            stack.append(item)
18
19
            return
20
        # Pop the top element and store it
21
22
       top = stack.pop()
23
        # Recursively call insert_at_bottom to reach the bottom
24
        insert at bottom(stack, item)
25
26
        # Push the top element back after inserting the item at the bottom
27
28
        stack.append(top)
29
30
   # Sample stack
   stack = [12, 20, 50, 11, 8]
31
32
   # Reverse the stack
33
   reverse_stack(stack)
34
35
36 # Output the reversed stack
37 print(stack)
```

[8, 11, 50, 20, 12]
...Program finished with exit code 0
Press ENTER to exit console.