```python
class ArrayStack:

    def __init__(self):
        self.data=[]

    def __len__(self):
        return len(self.data)

    def is_empty(self):
        return len(self)==0

    def push(self,val):
        self.data.append(val)

    def top(self):
        if self.is_empty():
            raise Exception('Stack is empty')
        return self.data[-1]

    def pop(self):
        if self.is_empty():
            raise Exception('Stack is empty')
        return self.data.pop()
```

```python
from Activity3Midterm_Broqueza import ArrayStack as Stack

def is_valid_expression(expression):
    stack = []
    matching_bracket = {')': '(', '}': '{', ']': '['}

    for char in expression:
        if char in '({[':
            stack.append(char)
        elif char in ')}]':
            if not stack or stack[-1] != matching_bracket[char]:
                return False
            stack.pop()

    return not stack
expressions = ["( )(( )){([( )])}", "((( )(( )){([( )]})", " )(( )){([( )])}", "({[])}", "("]
for exp in expressions:
    print(f"{exp}: {is_valid_expression(exp)}")
```

```python
1 usage  new *
def reverse_file_lines(filename):
    stack = []
    with open(filename, 'r') as file:
        for line in file:
            stack.append(line.strip())
    with open(filename, 'w') as file:
        while stack:
            file.write(stack.pop() + '\n')
reverse_file_lines('myfile.txt')
```

```
1    michael
2    ororon
3    maximus
4    daredevil
5    quicksilver
6    orion
7    |
```

OUTPUT:

```
Z:\DSALGO-IDB2\Activity3Midterm_Broq
( )(( )){([( )])}: True
((( )(( )){([( )])})): True
 )(( )){([( )])}: False
({[])}: False
(: False

Process finished with exit code 0
```

```
1    orion
2    quicksilver
3    daredevil
4    maximus
5    ororon
6    michael
7    |
```