

测试报告

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栈的实现和应用

基础测试

实现字符 'A', 'B', 'C' 的入栈

输出栈顶元素, 应该输出 'C'

执行两次出栈操作, 输出栈顶元素, 应该输出 'A'

再实现 'D', 'E', 'F' 的入栈, 输出栈顶元素, 应该输出 'F'

再执行 4 次出栈操作, 再输出栈顶元素, 应该会提示, " 此时为空栈 "

测试结果

```
Push A, B, C into the stack.  
The top of the stack  
C  
Pop twice.  
The top of the stack  
A  
Push D, E, F into the stack.  
The top of the stack  
F  
Pop 4 times.  
The top of the stack  
empty!
```

Figure 1: pic

测试输出所有出栈结果

3 ↑ abc

```
orders: abc
Result:
abc
acb
bac
bca
cba
count:5
```

Figure 2: pic2

4 ↑ abc

5 ↑ abcde

```
orders: abcd  
Result:  
abcd  
abdc  
acbd  
acdb  
adcb  
bacd  
badc  
bcad  
bcda  
bdca  
cbad  
cbda  
cdba  
dcba  
count:14  
→ Stack git:(
```

Figure 3: pic3

```
Result:
abcde
abced
abdce
abdec
abedc
acbde
acbed
acdbe
acdeb
acedb
adcbe
adceb
adecb
aedcb
bacde
baced
badce
badec
baedc
bcade
bcaed
bcdae
bcdea
bceda
bdcae
bdcea
bdeca
bedca
cbade
cbaed
cbdae
cbdea
cbeda
cdbae
cdbea
cdeba
cedba
dcbae
dcbea
dceba
decba
edcba
count:42
```

Figure 4: pic4