

STACK-EMPTY(S)

```
1  if  $S.top == 0$   
2      return TRUE  
3  else return FALSE
```

PUSH(S, x)

```
1  if  $S.top == S.size$   
2      error “overflow”  
3  else  $S.top = S.top + 1$   
4       $S[S.top] = x$ 
```

POP(S)

```
1  if STACK-EMPTY( $S$ )  
2      error “underflow”  
3  else  $S.top = S.top - 1$   
4      return  $S[S.top + 1]$ 
```