

```
python Code

stack = Stack()
s = read word()
while s != "":
    if s == "":
        stack.push( stack.pop() + stack.pop() )
elif s == "stack.push( stack.pop() * stack.pop() )
else
        stack.push( int(s) )
s = read_word()
print stack.pop()
```

```
Infix → Postfix

* Aufgabe: Konvertierung Infix- nach Postfix-Notation

* Algorithmus:

* Linke Klammern: ignorieren

* Rechte Klammern: pop und print

* Operator: push

* Integer: print

* stack = Stack()

* s = read word()

while * s!="":

* stack = push(s)

* elif * s = "*":

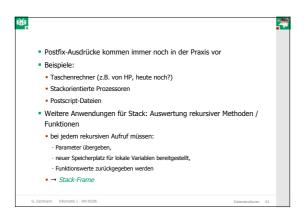
* stack = "*":

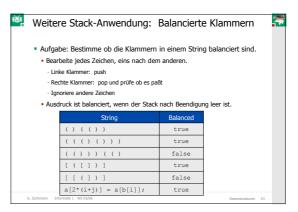
* stack = "*":

* stack = "*":

* stack = "":

* stack
```





```
Left_paren = "({{" | Right_paren = "}}" | def isBalanced(s):
    stack = Stack()
    for c in s:
        if c in Left_paren:
            stack.push(c)
    elif c in Right_paren:
        if stack.isEmpty():
        return false
    if Right_paren.find(c) != Left_paren.find(c):
        return false
    return stack.isEmpty()
```