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#Les piles
#Exercice 3
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```
from pile import *
```

```
def parenthese(ch):
    p = creer_pile()
    for c in ch:
        if c == '(' : empiler(p,c)
        elif c == ')' :
            if not pile_vide(p):
                depiler(p)
            else:
                return False, "manque ("

    if pile_vide(p):
        return True
    else:
        return False, "Manque )"
```

```
ch = "1+2)"
print(parenthese(ch))
```

```
def calc_exp_arith(ch):
    """
    ch : expression post fixée
    """
    p = creer_pile()
    for c in ch:
        if c in "0123456789":
            empiler(p,int(c))
        else :
            nb1 = depiler(p)
            nb2 = depiler(p)
            if c=='+' : empiler(p,nb1+nb2)
            elif c=='-' : empiler(p,nb2-nb1)
            elif c=='*' : empiler(p,nb2*nb1)
            elif c=='/' : empiler(p,nb2/nb1)

    return depiler(p)
```

```
ch = "2351+2*-+"
print(calc_exp_arith(ch))
```