# 2023hw5

2023 年 11 月 10 日

1. 增加 "红烧肉"，去掉 "水煮干丝"

```python
listA = ['水煮干丝','平桥豆腐','白灼虾','香菇青菜','西红柿鸡蛋汤']
listA.append("红烧肉")
listA.remove("水煮干丝")
print(listA)
```

2. 输出其中的最大值

```python
data = input()
a = data.split(",")
b = [eval(i) for i in a]
print(max(b))
```

3. 求其各整数元素的和

```python
ls = [123, "456", 789, "123", 456, "789"]
s = 0
for item in ls:
    if type(item) == type(123):
        s += item
print(s)
```

4. 在数字 789 后增加一个字符串 "012"

```python
ls = [123, "456", 789, "123", 456, "789"]
ls.insert(3,"012")
print(ls)
```

5. 删除数字 789

```python
ls = [123, "456", 789, "123", 456, "789"]
ls.remove(789)
print(ls)
```

6. 逆序打印

```
ls = [123, "456", 789, "123", 456, "789"]
ls = ls[::-1]
print(ls)
```

7. 序号打印

```
ls = [123, "456", 789, "123", 456, "789"]
print(ls.index(789))
```

2

8. 最大公约数

```
def gcd(x,y):
    if x < y:
        x,y = y,x
    while (x % y) != 0:
        r = x%y
        x = y
        y = r
    return y
# 请输入第一个正整数:
a = eval(input())
# 请输入第二个正整数:
b = eval(input())
gcdab = gcd(a,b)
print("{}与{}的最大公约数是{}".format(a,b,gcdab))
```

9. 平均值

```
def mean(numlist):
    s = 0.0
    for num in numlist:
        s = s + num
    return s/len(numlist)
# 请输入一个列表:
ls = eval(input())
print("平均值为: ",mean(ls))
```

10. 完数

```
[4]: for i in range(2,1001):
         ls = []
         for j in range(1,i):
             if i%j == 0:
                 ls.append(j)
         if sum(ls) == i:
             print(i)
```

6
28
496