Ques: Convert the list of items and quantity into list of tuples

In [7]:

```
items = list(input().split())
quantity = list(map(int, input().split()))

l = list(zip(items,quantity))
print(l)
```

```
Tshirt Jeans Shoes
2 1 1
[('Tshirt', 2), ('Jeans', 1), ('Shoes', 1)]
```

Ques: Convert the list of name and age into list of tuples

In [9]:

```
# Ques: Convert the list of name and age into list of tuples
name = list(input().split())
age = list(map(int, input().split(",")))

a = list(zip(name,age))
print(a)
```

```
Akshay Kumar,Akash Singh,Tanishi Srivastava
24,25,26
[('Akshay', 24), ('Kumar,Akash', 25), ('Singh,Tanishi', 26)]
```

Ques: print username and password

In [16]:

```
# Ques: print username and password

msg = input()

fname,lname = input().split()

if fname in msg:
    print(fname+'1')
    print(fname+'@123')
elif lname in msg:
    print(lname+'9')
    print(lname+'#321')
```

```
Hi Kapoor, welcome to the Board Infinity's Data Science Progra
m.
Anil Kapoor
Kapoor9
Kapoor#321
```

In [12]:

```
# Ques: LED light
color = list(input().split())

for i in color[::]:
    print(i,end = " ")
print("")

for i in color[::2]:
    print(i,end = " ")
print("")

for i in color[::3]:
    print(i,end = " ")
print("")
```

```
red green blue pink white yellow
red green blue pink white yellow
red blue white
red pink
```

In [27]:

```
x=list(input().split())

for i in [1,2,3]:
    print(" ".join(x[::i]))
```

```
red green blue pink white yellow
red green blue pink white yellow
red blue white
red pink
```

In [13]:

```
# Ques: Covert the list of name and labels into dictionary
shirt = list(input().split())
label = list(map(int,input().split()))

l = []

for i in label:
    if i==38:
        l.append('S')
    elif i==39 or i==40:
        l.append('M')
    elif i==41 and i==42:
        l.append('L')

d = dict(zip(shirt,l))
print(d)
```

```
Shirt1 Shirt2 Shirt3
38 42 40
{'Shirt1': 'S', 'Shirt2': 'M'}
```

In [14]:

```
# Ques: Calculate acceleration of car and displax max acceleration car name
n = int(input())
l = [input().split() for i in range(n)]

acc = []

for i in range(n):
    a = float(l[i][1]) - float(l[i][2])/float(l[i][3])
    acc.append(a)
#print(acc)

for i in range(n):
    if max(acc) == acc[i]:
        print(l[i][0])
```

```
3
car1 4.5 0 3
car2 5.6 2.5 4
car3 8.5 2.3 3
car3
```

In [15]:

```
# Ques: BMI

w,h = map(float,input().split())

bmi = w/h**2

if bmi < 18.5:
   print("Underweight")
elif bmi >= 18.5 and bmi <= 24.9:
   print("Normal")
elif bmi >= 25 and bmi <= 29.9:
   print("Overweight")
elif bmi >= 30 and bmi <=34.9:
   print("Obese")
else:
   print("Extremely Obese")
```

```
45.5 156.7
Underweight
```

In [17]:

```
# Ques: If year is a leap year print 'Grand Celberation' otherwise No celebera

year = int(input())

if year%4 == 0:
   print("Grand Celeberation")
elif year%400 == 0:
   print("Grand Celeberation")
else:
   print("No Celeberation")
```

```
2004
Grand Celeberation
```

In [18]:

```
def is_leap(year):

    if year%4 == 0:
       print("Grand Celeberation")
    elif year%400 == 0:
       print("Grand Celeberation")
    else:
       print("No Celeberation")

year = int(input())
is_leap(year)
```

```
2004
Grand Celeberation
```

In [24]:

```
# Ques: Calculate final price of a product by considering the discount.

n = int(input())

l = [input().split() for i in range(n)]

for i in range(n):
    p = int(l[i][0])
    d = int(l[i][1])
    fp = p*(1 - d/100)
    print(fp)
```

```
4
120 20
125 25
500 1
100 50
96.0
93.75
495.0
50.0
```

In [20]:

```
# Ques: Card game

c = input().split()

if c[0]=='ACE' and c[1]=='ACE' and c[2]=='ACE' and c[3]=='ACE':
    print(1000)
elif c[0]=='KING' and c[1]=='KING' and c[2]=='KING' and c[3]=='KING':
    print(500)
elif c[0]=='QUEEN' and c[1]=='QUEEN' and c[2]=='QUEEN' and c[3]=='QUEEN':
    print(250)
else:
    print(0)
```

```
KING KING KING 1
0
```

In [21]:

```
x=list(input().split())

if x[0]==x[1]==x[2]==x[3]=="ACE":
    y=(1000)
elif x[0]==x[1]==x[2]==x[3]=="KING":
    y=(500)
elif x[0]==x[1]==x[2]==x[3]=="QUEEN":
    y=(250)
else:
    y=0
print(y)
```

```
KING KING KING 1
0
```

In [31]:

```
a=input().split()
b=input().split()
c=input().split()

x=int(a[1])
y=int(b[1])
z=int(c[1])

total_price=(x+y+z)
print(total_price)
```

```
pizza1 200
no 0
yes 50
250
```

In [36]:

```
a=[input().split() for i in range(3)]
a.count('yes')

total=0
for i in a:
    total+=int(i[1])
    totalprice=int(a[1])+50*a.count('yes')
```

```
pizza1 200
no 0
yes 50

---------------------------------------------------------------
------------
TypeError                                 Traceback (most recen
t call last)
<ipython-input-36-f892d09e28b6> in <module>
      5 for i in a:
      6     total+=int(i[1])
----> 7     totalprice=int(a[1])+50*a.count('yes')

TypeError: int() argument must be a string, a bytes-like object
or a number, not 'list'
```

In [ ]:

In [ ]: