Assignment 6

- chef with 2 languages

```
for i in range(int(input())):
    A,B,A1,B1,A2,B2 = map(int, input().split())
    if (A==A1 or A==B1) and (B==A1 or B==B1):
        print(1)
    elif (A==A2 or A==B2) and (B==A2 or B==B2):
        print(2)
    else:
        print(0)
```

```
4
2 3 5 6 7 8
0
4 5 1 4 3 2
0
1 2 2 1 3 4
1
3 4 2 1 4 3
2
```

- create set with difficult level of problems

```
for t in range(int(input())):
    b = list(map(int, input().split()))
    a = set(b)
    if len(a)==1:
        print(0)
    elif len(a)==2 and b.count(b[0])!=2:
        print(1)
    else
        print(2)
```

```
3
1 4 3 2
2
4 5 5 5
1
2 2 2 2
0
```

* Develop a python code to check given 2 dates are equal with overload operators.

```
import datetime
d1 = datetime.datetime(2018,5,3)
d2 = datetime.datetime(2018,6,1)
print("d1 is greater than d2:", d1>d2)
print("d1 is less than d2": d1<d2)
print("d1 is not equal to d2:" d1!=d2)
```

d1 is greater than d2 : false
d1 is less than d2 : True
d1 is not equald2 : True

* operating with two distances (kilometers followed by mete

```
import math
kilometer1 = int(input("first Km:"))
meter1 = int(input("first mm:"))
kilometer2 = int(input("second Km:"))
meter2 = int(input("second kmm:"))
print("first distance is", kilometer1, "Km", and", meter
                                    meters\n")
print("second distance is kilometer,"Km","and", meter2,"
                                    meters\n")

# subtraction of bo addition of both distances
totalKm = (kilometer1 + (meter1/1000)) + (kilometer2 + m
result = math.modf(totalKm)
```

```
dec, integer = result
print (" The addition of given distance is ", integer, "km"
  and ", dec*1000," meters \n")

#subtraction of both distances
totalkm1 = (kilometer1 + (meter1/1000)) - (kilometer2 + (meter2/1000))
result1 = math.modf(totalkm1)
dec1, integer1 = result1
print("The subtraction of given distance is", integer1, "km",
      and", dec*1000, "meters\n")

# multiplication of both distances
totalkm2 = (kilometer1 + (meter1/1000)) * (kilometer2 + (meter2/1000))
result2 = math.modf(totalkm2)
dec2, integer2 = result2
print (" The multiplication of given distances is", integer2, "km"
  and dec2*1000," meters \n")

# Division of both distances
totalkm3 = (kilometer1 + (meter1/1000)) / (kilometer2 + (meter2/1000))
result3 = math.modf(totalkm3)
dec3, integer3 = result3
Print (" The Division of given distance is ", integer3, "km",
    and ", dec3*1000," meters\n")
```