

LAB - 1

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QUESTION : FIND THE NUMBER OF PERSON BORN ON SAME DAY IN A YEAR?

CODE :

```
import random
import datetime

list=[]

for x in range(100):
    year = random.randint(1900,2020)
    month=random.randint(1,12)

    if month==2 and year%4==0 :
        day=random.randint(1,29)

    elif month==2 and year%4!=0:
        day=random.randint(1,28)

    elif month%2==0 and month>7 :
        day=random.randint(1,31)

    elif month%2!=0 and month>7 :
        day=random.randint(1,30)

    elif month%2!=0 and month<=7 :
        day=random.randint(1,31)

    elif month%2==0 and month<=7 :
        day=random.randint(1,30)

    date1=datetime.datetime(year,month,day)
    tuple2=date1.timetuple()
    list.append(tuple2.tm_yday)
```

```

collision=[]
count=0
for i in range(len(list)):
    for j in range(i+1, len(list)):
        if list[i] == list[j] and list[i] not in collision:
            collision.append(list[i])
            count=count+1
print(collision)
print(list)
print(count)

```

OUTPUT :

[92, 34, 15, 343, 31, 300, 235, 22]

[221, 109, 281, 101, 92, 34, 355, 169, 283, 316, 15, 160, 251, 343, 107, 29, 19, 277, 333, 293, 76, 342, 144, 66, 292, 343, 63, 31, 347, 311, 58, 237, 364, 301, 217, 321, 179, 108, 242, 31, 305, 308, 353, 300, 350, 361, 15, 85, 188, 185, 235, 228, 150, 218, 289, 331, 247, 272, 135, 22, 55, 92, 184, 257, 196, 275, 318, 300, 260, 166, 168, 39, 172, 68, 224, 154, 320, 337, 325, 235, 213, 22, 253, 354, 174, 31, 244, 215, 2, 120, 309, 161, 226, 266, 47, 34, 302, 173, 102, 158]