In [1]:

```
# 1


def list_operation(x,y,n):

    k=[]
    for i in range(x,y+1):
        if i%n==0:
            k.append(i)
    print(k)



list_operation(1, 10, 3)
list_operation(7, 9, 2)
list_operation(15, 20, 7)
```

```
[3, 6, 9]
[8]
[]
```

In [35]:

```
# 2
def simon_says(l1,l2):
    if len(l1)>2 and len(l2)>2:
        if l1[0]==l2[1] or l1[1]==l2[2]:
            return True
        else:
            return False
    else:
        if l1[0]==l2[0] or l1[0]==l2[1]:
            return True
        else:
            return False



print(simon_says([1, 2], [5, 1]))
print(simon_says([1, 2], [5, 5]))
print(simon_says([1, 2, 3, 4, 5], [0, 1, 2, 3, 4]))
print(simon_says([1, 2, 3, 4, 5], [5, 5, 1, 2, 3]))


```

```
True
False
True
False
```

In [9]:

```python
# 3

def society_name(l):
    k=""
    l.sort()
    for i in l:
        k+=i[0]
    print(k)
society_name(["Adam", "Sarah", "Malcolm"])
society_name(["Harry", "Newt", "Luna", "Cho"])
society_name(["Phoebe", "Chandler", "Rachel", "Ross", "Monica", "Joey"])
```

```
AMS
CHLN
CJMPRR
```

In [22]:

```python
# 4


def is_isogram(s):
    k=set()
    for i in range(len(s)):
        if s[i].lower() in k:
            return False
        k.add(s[i])
    return True


print(is_isogram("Algorism"))

print(is_isogram("PasSword"))

print(is_isogram("Consecutive"))
```

```
True
False
True
```

In [28]:

```
# 5


def is_in_order(s):

    for i in range(len(s)-1):
        if ord(s[i])>ord(s[i+1]):
            return False
    return True



print(is_in_order("abc"))
print(is_in_order("edabit"))
print(is_in_order("123"))
print(is_in_order("xyzz"))
```

```
True
False
True
True
```