ECE326 Quiz 12, Fall 2019

Name: **Student Number:**

Given two increasing series generators, generator1() and generator2(), we want to merge these two series into another one using a third generator. Please complete sortedSeriesGenerator() implementation. Note that you should eliminate duplicates (e.g. the number 10 should not come up twice)

```python
def generator1():                    def generator2():
    i = 1                                i = 2
    while True:                          while True:
        yield i                              yield i
        i += 7                               i += 3


def sortedSerieGenerator():
    gen1, gen2 = generator1(), generator2()

    # complete the implementation

    x = next(gen1)
    y = next(gen2)
    while True:
        if x > y:
            yield y
            y = next(gen2)
        elif y > x:
            yield x
            x = next(gen1)
        else:
            yield x
            x = next(gen1)
            y = next(gen2)


    seriesGenerator = sortedSerieGenerator()
    for i in range(1,10):
        print(next(seriesGenerator))
```