New Year Chaos

https://www.hackerrank.com/challenges/new-year-chaos/problem?h_l=interview&playlist_slugs%5B%5D=interview-preparation-kit&playlist_slugs%5B%5D=arrays

2 → 1 → 5 → 3 → 4 : input  len = 5

0 1 2 3 4

1 → 2 → 3 → 4 → 5

1 → 2 → 3 → 5 → 4

1 → 2 → 5 → 3 → 4

2 → 1 → 5 → 3 → 4

} => 3 bribes

2 → 5 → 1 → 3 → 4 : input

↓

5 bribed more than 3 ppl → too chaotic

## My approach

2 → 1 → 5 → 3 → 4

ind 0 1 2 3 4

- loop thru each num

  at = 0 , q[0]

  - run loop of each next num

    If q[j] - (j+1) >= 3 => too chaotic

    (num - ind >= 3)

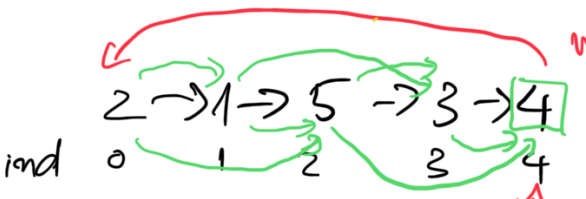
    If current num > next num => switch => bribe t

```
def minimumBribes(q):
    bribes = 0
    for i in range(len(q)-1,-1,-1):
        if q[i] - (i + 1) > 2:
            print('Too chaotic')
            return
        for j in range(max(0, q[i] - 2),i):
            if q[j] > q[i]:
                bribes+=1
    print(bribes)
```

at i:4 , range(4, -1, -1) ⇒ start at the end
go backward

. check too chaotic

. range(max(0, q[4]-2), 4)
range(max(0, 4-2), 4)
range(2, 4)
check q[2] > q[4] (5 > 4)
bribes + 1




↑ start here
↓
check too chaotic
↓
loop thru range of next 2 numbers
check if each is greater than
current → bribes + 1

Reason for max(0, q[i]-2) : at index 2 → avoid out of range

at index 2 : for j in range(max(0, q[2]-2), 2)
⇒ for j in range(0, 2)