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

i 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]

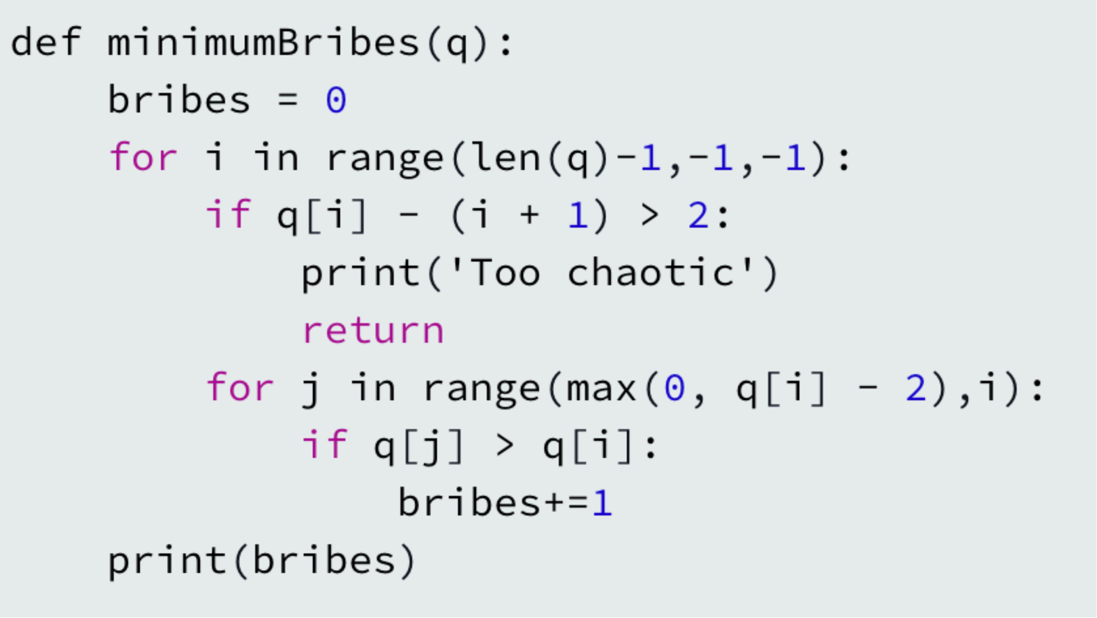
  - run loop of each next num

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

    (num - ind >= 3)

    If current num > nextnum => switch => bribe

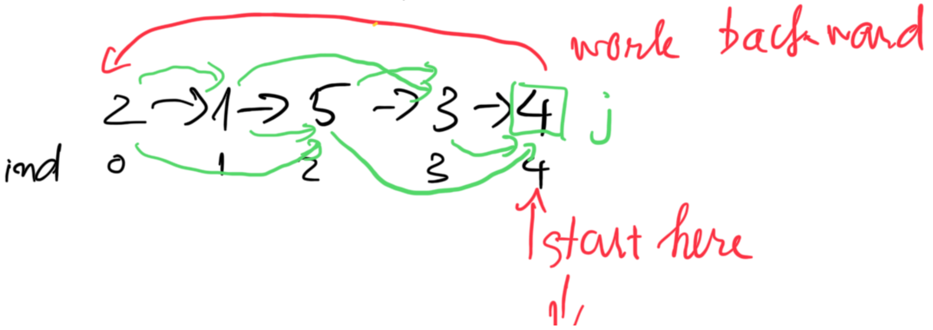
    (swap) +



```python
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



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)

What I do wrong: loop thru the array every
time instead of just next 2 numbers in the
front (takes too much time)