

random(2, 20)  $n=50$  It is impossible to create  
a unique number

```
def randomNumbers( nums )
```

```
    randomInt(0, 2*nums)
```

```
    MySet = Set()
```

```
    rList = []
```

```
    while( len(rList) < nums )
```

P

```
        if randomInt not in Set
            rList.append(randomInt)
            randomInt mySet.add(randomInt)
```

Assumptions (array size n)

Constraints / generate random numbers in array (numbers)

- 1) Must generate (N) numbers -  $\rightarrow$  random(2, 20)  $n=50$  it is impossible to create a unique number
- 2)  $n > 2$  (input)
- 3) elements can be any integer

```
def randomNumbers( nums )  
    randomInt(0, (2 * nums))  
    MySet = Set()  
    rList = []  
    while (len(rList) < nums)  
        P  
        if randomInt not in Set  
            rList.append(randomInt)  
            randomInt mySet.add(randomInt)
```