Step 1

Generate 6 random numbers

The random package allows us to create pseudo-random numbers. Read online at random package documentation.

In [ ]:

```
import random
```

In [13]:

```
num1 = random.randint(1, 59)
num2 = random.randint(1, 59)
num3 = random.randint(1, 59)
num4 = random.randint(1, 59)
num5 = random.randint(1, 59)
num6 = random.randint(1, 59)
print(num1, num2, num3, num4, num5, num6)
```

```
10 3 39 36 58 3
```

Step 2i

Save all numbers into a list We can achieve this using a list.

In [14]:

```
num1 = random.randint(1, 59)
num2 = random.randint(1, 59)
num3 = random.randint(1, 59)
num4 = random.randint(1, 59)
num5 = random.randint(1, 59)
num6 = random.randint(1, 59)
numList = [num1, num2, num3, num4, num5, num6]
print(numList)
```

```
[16, 32, 38, 20, 44, 26]
```

Step 2ii

Let's use a for loop instead of repeating statements

In [15]:

```
import random

numList = []

for i in range(0, 6):
  num = random.randint(1, 59)
  numList.append(num)
print(numList)
```

```
[56, 45, 35, 6, 51, 12]
```

Step 3: No repeated numbers

The national Lottery does not have repeated numbers.

In [16]:

```
import random

numList = []

for i in range(0, 6):
  num = random.randint(1, 59)
  while num in numList:
    number = random.randint(1, 50)

  numList.append(num)
```

Step 4: Display the winner

Display the winner set of numbers

In [17]:

```
import random

numList = []

for i in range(0, 6):
  num = random.randint(1, 59)
  while num in numList:
    number = random.randint(1, 50)

  numList.append(num)

numList.sort()

print("The winner set of numbers are: ")
print(numList)
```

```
The winner set of numbers are:
[22, 31, 35, 39, 41, 48]
```