

while

Statement:1

Input: 5

Output: 0 1 2 3 4 5

Statement:2

Input: 5

Output: 5 4 3 2 1 0

In [11]:

```
1 n = int(input("Enter a number: "))
2 j = -1
3 while n!=j:
4     j+=1
5     print("{} ".format(j),end=" ")
```

Enter a number: 7

0 1 2 3 4 5 6 7

In [16]:

```
1 n = int(input("Enter a number: "))
2 while n!=0:
3     print("{} ".format(n),end=" ")
4     n-=1
5 print("\n")
6 print(n)
```

Enter a number: 7

7 6 5 4 3 2 1

0

In []:

```
1 97723
2 32779
```

$r = r*10+n\%10$

$n = n//10$

$n = 97723 \rightarrow 0$

$k = 3$

$r = 0*10+3 = 3$

$r = 3$

$n = 9772 \rightarrow 1$

$k = 2$

$r = 3*10+2 = 32$

```

r = 32
n = 977 -> 2
k = 7
r = 32*10+7 = 327
n = 97 -> 3
k = 7
r = 327*10+7 = 3277
r = 3277
n = 9 -> 4
k = 9
r = 3277*10+9 = 32779
n = 0 -> 5 -> x

```

In [20]:

```

1 m = 1234
2 print(9//10)

```

0

In [28]:

```

1 n = int(input())
2 t = n
3 r,d = 0,0
4 while n!=0:
5     r = r*10+n%10
6     d +=1
7     n = n//10
8 print("Given number is: {} and Its reverse is: {} and its count is: {}".format(t,r,d))

```

2173581726537192378102346718264912593512765312563961253765123

Given number is: 21735817265371923781023467182649125935127653125639612537651
 23 and Its reverse is: 32156735216936521356721539521946281764320187329173562
 71853712 and its count is: 61

```

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|for  |  while |
-----
|10   |   100   |
|9    |   10    |
|8    |    1    |
|7    |    0    |
-----

```

In []:

1