

```
for num in range(10, 51):
```

→ to generate numbers

```
    for i in range(2, num):
```

```
        if num % i == 0:
```

```
            break
```

```
    else:
```

```
        print(num, end=' ')
```

→ Prime number logic

```
11 13 17 19 23 29 31 37 41 43 47
```

sequential data

item count

for each iteration, iterative variable initialize with next indexed value.

Exit from loop False
while Condition :
block of code True
(Continue for next iteration)

num = ~~0~~ ~~9~~ ~~4~~ ~~7~~

rev = ~~0~~ 749

749

digit = num % 10

rev = rev * 10 + digit

num = num // 10

digit = num % 10

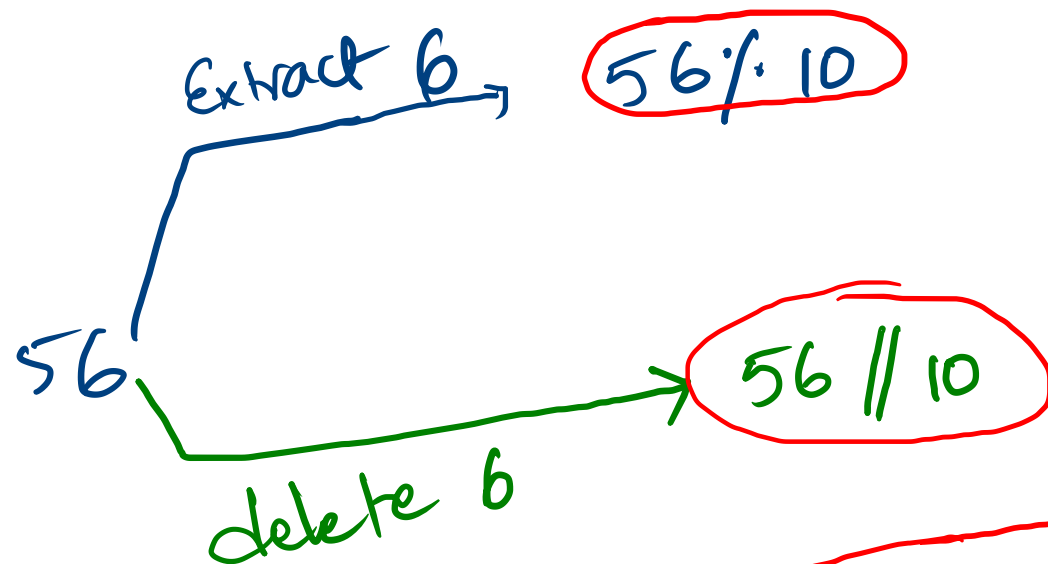
rev = rev * 10 + digit

num = num // 10

digit = num % 10

rev = rev * 10 + digit

num = num // 10



$x * 10 + y$

$\frac{2}{5}, \frac{4}{8} \Rightarrow 58$

$7, 1 \Rightarrow 71$

$6, 4 \Rightarrow 64$

$8, 2 \Rightarrow 82$

10) 9 (0)
0
9

```
num = 947
```

```
rev = 0
```

```
while num != 0:
```

```
    digit = num % 10
```

```
    rev = rev * 10 + digit
```

```
    num = num // 10
```


```
print(rev)
```

```
i = 1  
while i <= 5:  
    print(i)
```

∞ infinite times.

```
i = 1
while i <= 10:
    print(i, end=' ')
    if i == 6:
        break
    i = i + 1
```

Exit from Current loop



1 2 3 4 5 6

