```
for num in range(10,51):
    for i in range(2,num):
        if num % i == 0:
            break
    else:
        print(num,end='  ')
```

to generate numbers

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 : → True

block of code

(Continue for next iteration)

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

rev = 0 7 4 9

749

```
digit = num % 10
rev = rev * 10 + digit
num = num // 10
```

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```

```
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rev = rev * 10 + digit
num = num // 10
```

Extract 6 → 56 % 10

56 → delete 6 → 56 // 10

x * 10 + y

10) 9 (0
0
9

x, y ⇒ 58

7, 1 ⇒ 71

6, 4 ⇒ 64

8, 2 ⇒ 82

```
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 time

```
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
```

```python
i = 1
while i <= 10:
  print(i,end=' ')
  if i % 4 == 0:
    continue
  i = i+1
```

1
2
3
4
4
4
4
4
4
4
4
4
4
.....