

iteration:  
while loops

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Java

# Loops

- Want to output your name 100 times
- two choices:
- 

[illegible]

- ```
- loop(100)
  System.out.print("Neato");
```

# while loop

Specify loop structure with 3 statements:

- 1) while-true-statement
- 2) if-break-statement
- 3) counter variable

Note: all loops have these 3 elements

# while loop structure

```
while(true)
{
    // action statements to be repeated

    if(condition)
    {
        break;
    }

    // action statements that change condition
}
```

# while loop example: count to 10

```
int c = 0;
while(true)
{
    System.out.println(c);
    if(c == 10)
    {
        break;
    }
    c = c + 1;
}
```

# Lab

Ask the user for a name and the number of times the name should be output to the screen. Then perform the operation (write the name the desired number of times).