

THE HUMAN LOOP

ROLES

computer	calls commands to each role in order
variable (count)	keeps track of how many steps we've taken
initializer	sets count to 0 at the start
condition tester	is the count past a certain value? ...if so, stop! ...if not, do the task and continue
incrementer	increase the count by one
task	run the task listed inside the loop

WHILE LOOP

```
count = 0;  
while (count < 5) {  
    // take a step forward  
    count += 1;  
}
```

SIMPLE FOR-LOOP

```
for (count = 0; count < 5; count += 1) {  
    // take a step forward  
}
```

THE TWO-STEP

```
for (count = 0; count < 10; count += 2) {  
    // take two steps forward  
}
```

2D FOR-LOOP

```
for (y = 0; y < 5; y += 1) {  
    for (x = 0; x < 5; x += 1) {  
        // stand in position x, y  
    }  
}
```