



Leiden University
Medical Center

Scripting for Life Science Researchers

Advanced scripting II

Jeroen Laros



Loops

```
1  for value in {1..20}; do
2      ...
3  done
```

Listing 1: FizzBuzz times 20.

Practical

```
1  collatz() {
2      local var=${1}
3
4      local i=0
5      while [ ${var} -ne 1 ]; do
6          if [ $(( ${var} % 2 )) -eq 0 ]; then
7              var=$(( ${var} / 2 ))
8          else
9              var=$(( ${var} * 3 + 1 ))
10         fi
11         i=$(( ${i} + 1 ))
12     done
13
14     echo ${i}
15 }
```

Listing 2: Collatz stop times.



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