4.4-For Loops

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```
In [ ]: > compute_s_n <- function(n){</pre>
    x < -1:n
    sum(x)
+ }
> compute_s_n(3)
[1] 6
> compute_s_n(100)
[1] 5050
> compute_s_n(2018)
[1] 2037171
> for (i in 1:5){
    print(i)
+ }
\lceil 1 \rceil 1
[1] 2
[1] 3
[1] 4
[1] 5
> i
[1] 5
> m <- 25
> s_n <- vector(length = m)</pre>
> for (n in 1:m){
    s_n[n] <- compute_s_n(n)
+ }
> s_n
 [1]
      1 3 6 10 15 21 28 36 45 55 66 78 91 105 120 136 153 171 190
[20] 210 231 253 276 300 325
> n < 1:m
> plot(n, s_n)
+ lines(n, n*(n+1)/2)
> #plot + line
```