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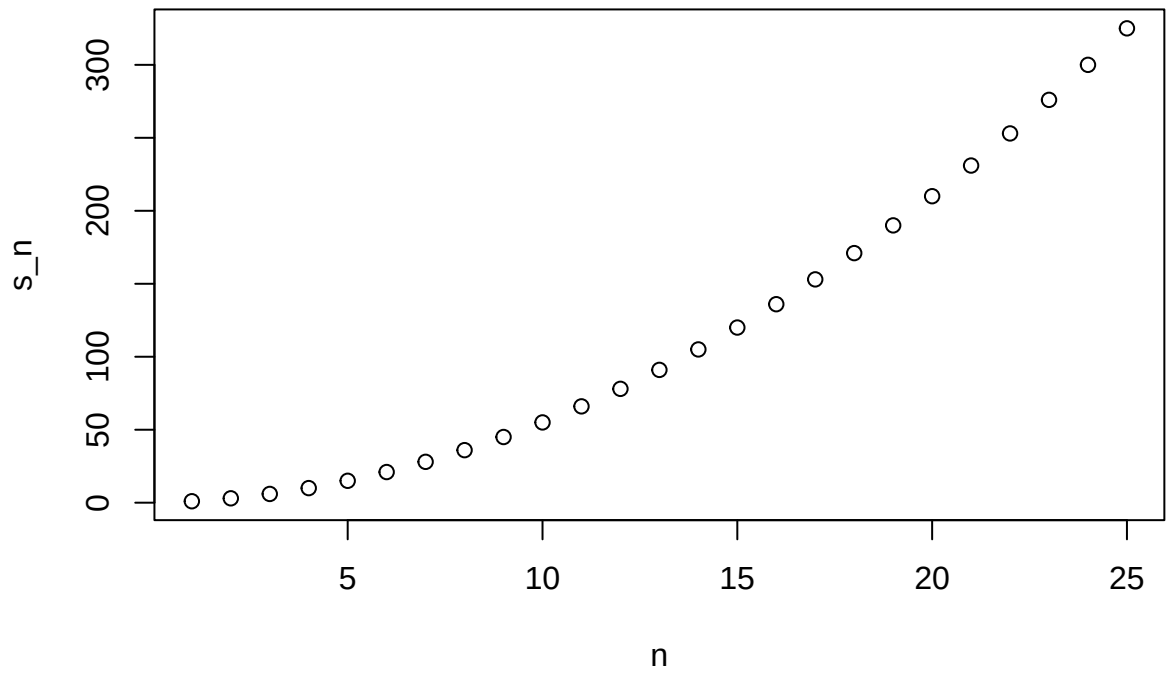
```
compute_s_n <- function(n){
x <- 1:n
sum(x)
}

for(i in 1:5){
print(i)
}
```

```
## [1] 1
## [1] 2
## [1] 3
## [1] 4
## [1] 5
```

```
#> [1] 1
#> [1] 2
#> [1] 3
#> [1] 4
#> [1] 5

m <- 25
s_n <- vector(length = m) # create an empty vector
for(n in 1:m){
s_n[n] <- compute_s_n(n)
}

n <- 1:m
plot(n, s_n)
```




```
x <- 1:10
sqrt(x)
```

```
##  [1] 1.000000 1.414214 1.732051 2.000000 2.236068 2.449490 2.645751 2.828427
##  [9] 3.000000 3.162278
```

```
#> [1] 1.00 1.41 1.73 2.00 2.24 2.45 2.65 2.83 3.00 3.16
y <- 1:10
x*y
```

```
##  [1]   1   4   9  16  25  36  49  64  81 100
```

```
#> [1] 1 4 9 16 25 36 49 64 81 100

n <- 1:25
compute_s_n(n)
```

```
## Warning in 1:n: numerical expression has 25 elements: only the first used
```

```
## [1] 1
```

```r
x <- 1:10
sapply(x, sqrt)
```

```
##  [1] 1.000000 1.414214 1.732051 2.000000 2.236068 2.449490 2.645751 2.828427
##  [9] 3.000000 3.162278
```

```r
#> [1] 1.00 1.41 1.73 2.00 2.24 2.45 2.65 2.83 3.00 3.16

n <- 1:25
s_n <- sapply(n, compute_s_n)
```