

Latihan - Pertemuan3

ryankny

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Latihan

nomor 1

```
library(dslabs)
data(murders)

new_names = ifelse(nchar(murders$state) > 8, murders$abb, murders$state)
new_names
```

## [1]	"Alabama"	"Alaska"	"Arizona"	"Arkansas"	"CA"	"Colorado"
## [7]	"CT"	"Delaware"	"DC"	"Florida"	"Georgia"	"Hawaii"
## [13]	"Idaho"	"Illinois"	"Indiana"	"Iowa"	"Kansas"	"Kentucky"
## [19]	"LA"	"Maine"	"Maryland"	"MA"	"Michigan"	"MN"
## [25]	"MS"	"Missouri"	"Montana"	"Nebraska"	"Nevada"	"NH"
## [31]	"NJ"	"NM"	"New York"	"NC"	"ND"	"Ohio"
## [37]	"Oklahoma"	"Oregon"	"PA"	"RI"	"SC"	"SD"
## [43]	"TN"	"Texas"	"Utah"	"Vermont"	"Virginia"	"WA"
## [49]	"WV"	"WI"	"Wyoming"			

nomor 2

```
sum_n = function(n) {
  return(sum(1:n))
}

hasil = sum_n(5000)
print(hasil)
```

```
## [1] 12502500
```

nomor 3

```
compute_s_n = function(n) {
  return(sum((1:n)^2))
}
```

```
hasil = compute_s_n(10)
print(hasil)
```

```
## [1] 385
```

nomor 4

```
s_n = vector("numeric", 25)

for (n in 1:25) {
  s_n[n] = compute_s_n(n)
}

s_n
```

```
## [1] 1 5 14 30 55 91 140 204 285 385 506 650 819 1015 1240
## [16] 1496 1785 2109 2470 2870 3311 3795 4324 4900 5525
```

nomor 5

```
sapply(1:25, compute_s_n)
```

```
## [1] 1 5 14 30 55 91 140 204 285 385 506 650 819 1015 1240
## [16] 1496 1785 2109 2470 2870 3311 3795 4324 4900 5525
```