

List

Kumpulan berbagai macam tipe data di R

```
v <- c(1,2,3,4,5)
M <- matrix(1:10, nrow=2)
c1 <- c('Ignatius', 'Laynez', 'Faber', 'Xaverius',
'Kanisius')
c2 <- c(42,37,28,45,43)
```

```
df <- data.frame>Nama = c1, ID = c2)
df
```

NAMA	ID
Ignatius	42
Laynez	37
Faber	28
Xaverius	45
Kanisius	43

```
# Pendefinisian list
l <- list(v,M,df)
l
```

1.
 - a. 1
 - b. 2
 - c. 3
 - d. 4
 - e. 5

2.	1	3	5	7	9
	2	4	6	8	10

3.	NAMA	ID
	Ignatius	42
	Laynez	37
	Faber	28
	Xaverius	45
	Kanisius	43

```
# penamaan ulang indeks list

12 <- list(sampel_vektor = v, sampel_matriks = M,
sample_data_frame = df)
12
```

\$sampel_vektor

```
1. 1
2. 2
3. 3
4. 4
5. 5
```

\$sampel_matriks

1	3	5	7	9
2	4	6	8	10

\$sample_data_frame

NAMA	ID
Ignatius	42
Laynez	37
Faber	28
Xaverius	45
Kanisius	43

```
12[1]
```

\$sampel_vektor =

```
1. 1
2. 2
3. 3
4. 4
5. 5
```

```
l2['sampel_vektor']
```

\$sampel_vektor =

```
1. 1
2. 2
3. 3
4. 4
5. 5
```

```
l2$sampel_vektor
```

```
1. 1
2. 2
3. 3
4. 4
5. 5
```

```
l2[['sampel_vektor']]
```

```
1. 1
2. 2
3. 3
4. 4
5. 5
```

```
print(class(l2['sampel_vektor']))
print(class(l2[1]))
```

```
[1] "list"  
[1] "list"
```

```
print(class(l2$sampel_vektor))  
print(class(l2[['sampel_vektor']]))
```

```
[1] "numeric"  
[1] "numeric"
```

```
# Mengombinasikan dua list  
l3 <- c(l,l2)  
l3
```

[[1]]

```
1. 1  
2. 2  
3. 3  
4. 4  
5. 5
```

[[2]]

1	3	5	7	9
2	4	6	8	10

[[3]]

NAMA	ID
Ignatius	42
Layneze	37
Faber	28
Xaverius	45
Kanisius	43

\$sampel_vektor

```
1. 1  
2. 2  
3. 3  
4. 4  
5. 5
```

\$sampel_matriks

1	3	5	7	9
2	4	6	8	10

\$sample_data_frame

NAMA	ID
Ignatius	42
LayneZ	37
Faber	28
Xaverius	45
Kanisius	43

str(l2)

```
List of 3
 $ sampel_vektor      : num [1:5] 1 2 3 4 5
 $ sampel_matriks     : int  [1:2, 1:5] 1 2 3 4 5 6 7 8 9 10
 $ sample_data_frame:'data.frame': 5 obs. of  2
 variables:
   ..$ Nama: Factor w/ 5 levels "Faber","Ignatius",...: 2 4
   1 5 3
   ..$ ID  : num [1:5] 42 37 28 45 43
```

summary(l2)

	Length	Class	Mode
sampel_vektor	5	-none-	numeric
sampel_matriks	10	-none-	numeric
sample_data_frame	2	data.frame	list