TugasModul3

ladhty 9/23/2021



1. Fungsi str

a. Data murders memiliki 51 data di dalamnya

length(murders\$state)

[1] 51

b. Data berisi tingkat pembunuhan pada 50 negara bagian dan DC

murders

##		state	abb	_	population	total
## :		Alabama	AL	South	4779736	135
## :		Alaska	AK	West	710231	19
## 3		Arizona	ΑZ	West	6392017	232
## 4		Arkansas	AR	South	2915918	93
## !		California	CA	West	37253956	1257
## (Colorado	CO	West	5029196	65
##	7	Connecticut	СТ	Northeast	3574097	97
## 8	8	Delaware	DE	South	897934	38
## 9	9	District of Columbia	DC	South	601723	99
## :	10	Florida	FL	South	19687653	669
## :	11	Georgia	GΑ	South	9920000	376
## :	12	Hawaii	ΗI	West	1360301	7
## :	13	Idaho	ID	West	1567582	12
## :	14	Illinois	IL	North Central	12830632	364
## :	15	Indiana	IN	North Central	6483802	142
## :	16	Iowa	IA	North Central	3046355	21
## :	17	Kansas	KS	North Central	2853118	63
## :		Kentucky	ΚY	South	4339367	116
## :		Louisiana	LA	South	4533372	351
## :		Maine	ME	Northeast	1328361	11
## :		Maryland	MD	South	5773552	293
## :		Massachusetts	MA	Northeast	6547629	118
## :		Michigan		North Central	9883640	413
## :		Minnesota		North Central	5303925	53
## :		Mississippi	MS	South	2967297	120
## 3		Missouri		North Central	5988927	321
## :		Montana	MT			12
## :				West North Central	989415	32
## :		Nebraska			1826341	84
		Nevada	NV	West	2700551	
## :		New Hampshire	NH	Northeast	1316470	5
## 3		New Jersey	NJ	Northeast	8791894	246
## :		New Mexico	NM	West	2059179	67
## :		New York	NY	Northeast	19378102	517
## :		North Carolina	NC	South	9535483	286
## 3		North Dakota		North Central	672591	4
## :		Ohio		North Central	11536504	310
## :	37	Oklahoma	OK	South	3751351	111
## :	38	Oregon	OR	West	3831074	36
## :	39	Pennsylvania	PA	Northeast	12702379	457
## 4	40	Rhode Island	RI	Northeast	1052567	16
## 4	41	South Carolina	SC	South	4625364	207
## 4	42	South Dakota	SD	North Central	814180	8
## 4	43	Tennessee	TN	South	6346105	219
## 4	44	Texas	TX	South	25145561	805
## 4	45	Utah	UT	West	2763885	22
## 4		Vermont	VT	Northeast	625741	2
## 4		Virginia	VA	South	8001024	250
## 4		Washington	WA	West	6724540	93
## 4		West Virginia	WV	South	1852994	27
## !		Wisconsin		North Central	5686986	97
## !		Wyoming	WY	West	563626	5
ππ .) <u> </u>	Wyoming	WI	WC3C	303020	,

c. Data berisi Nama negara bagian, singkatan dari nama negara bagian, wilayah negara bagian, dan populasi negara bagian serta jumlah total pembunuhan pada tahun 2010.

```
## 'data.frame': 51 obs. of 5 variables:
## $ state : chr "Alabama" "Alaska" "Arizona" "Arkansas" ...
## $ abb : chr "AL" "AK" "AZ" "AR" ...
## $ region : Factor w/ 4 levels "Northeast", "South",..: 2 4 4 2 4 4 1 2 2 2 ...
## $ population: num 4779736 710231 6392017 2915918 37253956 ...
## $ total : num 135 19 232 93 1257 ...
```

d. "str" tidak menunjukkan informasi yang relevan, namun menunjukkan struktur dati suatu data

```
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## $ state : chr "Alabama" "Alaska" "Arizona" "Arkansas" ...
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## $ region : Factor w/ 4 levels "Northeast", "South", ..: 2 4 4 2 4 4 1 2 2 2 ...
## $ population: num 4779736 710231 6392017 2915918 37253956 ...
## $ total : num 135 19 232 93 1257 ...
```

2. Nama kolom pada data frame adalah state, abb, region, population, dan total

```
## 'data.frame': 51 obs. of 5 variables:
## $ state : chr "Alabama" "Alaska" "Arizona" "Arkansas" ...
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## $ region : Factor w/ 4 levels "Northeast", "South", ..: 2 4 4 2 4 4 1 2 2 2 ...
## $ population: num 4779736 710231 6392017 2915918 37253956 ...
## $ total : num 135 19 232 93 1257 ...
```

3. Jenis class objek "a" adalah "character"

```
a = murders$abb
class(a)
```

```
## [1] "character"
```

4. Jenis class objek "b" dan "a" adalah "character"

```
b <- murders$abb
class(b)

## [1] "character"</pre>
```

5. Jumlah region yang dimiliki dataset

```
length(levels(murders$region))

## [1] 4
```

6. Jumlah state pada setiap region

##
Northeast South North Central West
9 17 12 13