

How do you extract the last row in a data frame in R?

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The process of extracting the last row in a data frame in R involves retrieving the last row of data from a data frame. This can be achieved by using the function "nrow" to determine the total number of rows in the data frame, and then using the indexing operator "[" to specify the last row. The extracted row can then be assigned to a new data frame or used for further analysis. This method allows for efficient retrieval of the last row of data in R data frames.

Extract Last Row in Data Frame in R

You can use the following methods to extract the last row in a data frame in R:

Method 1: Use Base R

```
last_row <- tail(df, n=1)
```

Method 2: Use dplyr

```
library(dplyr)
```

```
last_row <- df %>% slice(n())
```

Method 3: Use data.table

```
library(data.table)
```

```
last_row <- setDT(df)
```

The following examples show how to use each method

with the following data frame in R:

```
#create data frame
```

```
df <- data.frame(team=c('A', 'B', 'C', 'D', 'E'),  
points=c(99, 90, 86, 88, 95),  
assists=c(33, 28, 31, 39, 34),  
rebounds=c(30, 28, 24, 24, 28))
```

```
#view data frame
```

```
df
```

```
team points assists rebounds
```

```
1 A 99 33 30
```

```
2 B 90 28 28
```

```
3 C 86 31 24
```

```
4 D 88 39 24
```

```
5 E 95 34 28
```

Example 1: Extract Last Row Using Base R

The following code shows how to extract the last row of the data frame by using the `tail()` function from base R:

```
#extract last row in data frame
```

```
last_row <- tail(df, n=1)
```

```
#view last row
```

```
last_row
```

```
team points assists rebounds
```

```
5 E 95 34 28
```

Using the `tail()` function, we're able to extract only the last row in the data frame.

Note that you can change the value for the `n` argument to instead select the last `n` rows of the data frame.

Example 2: Extract Last Row Using `dplyr`

The following code shows how to extract the last row of the data frame by using the `slice()` function from the `dplyr` package:

```
library(dplyr)
```

```
#extract last row in data frame
```

```
last_row <- df %>% slice(n())
```

```
#view last row
```

```
last_row
```

```
team points assists rebounds  
1 E 95 34 28
```

Related:

Example 3: Extract Last Row Using data.table

The following code shows how to extract the last row of the data frame by using functions from the data.table package:

```
library(data.table)  
  
#extract last row in data frame  
last_row <- setDT(df)  
  
#view last row  
last_row  
  
team points assists rebounds  
1: E 95 34 28
```

Using the `nrow()` function, we're able to extract only the last row in the data frame.