

# How can I replicate rows in a data frame in R?

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## RECOMMENDED CITATION

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Replicating rows in a data frame in R refers to the process of creating copies of existing rows within the same data frame. This can be achieved by using the "rep" function in R, which allows for the duplication of rows based on a specified number of times. This technique is useful for data manipulation and analysis, as it allows for the creation of larger datasets with repeated observations. By replicating rows, one can also adjust the sample size of a data frame, which can be beneficial for statistical analysis.

## Replicate Rows in Data Frame in R

You can use the following methods to replicate rows in a data frame in R using functions from the package:

### Method 1: Replicate Each Row the Same Number of Times

```
library(dplyr)
```

```
#replicate each row 3 times
```

```
df %>% slice(rep(1:n(), each= 3))
```

### Method 2: Replicate Each Row a Different Number of Times

```
library(dplyr)
```

```
#replicate the first row 3 times and the second row 5 timesdf %>% slice(rep(1:n(), times = c(3, 5)))
```

The following examples show how to use each method in practice.

### Example 1: Replicate Each Row the Same Number of Times

Suppose we have the following data frame with two rows in R:

```
#create data frame
df <- data.frame(team=c('A', 'B'),
points=c(10, 15),
rebounds=c(4, 8),
assists=c(2, 5))
```

```
#view data frame
```

```
df
```

```
team points rebounds assists
1 A 10 4 2
2 B 15 8 5
```

We can use the following syntax to repeat each row in the data frame three times:

```
library(dplyr)
```

```
#create new data frame that repeats each row in original  
data frame 3 times
```

```
new_df <- df %>% slice(rep(1:n(), each = 3))
```

```
#view new data frame
```

```
new_df
```

```
team points rebounds assists
```

```
1 A 10 4 2
```

```
2 A 10 4 2
```

```
3 A 10 4 2
```

```
4 B 15 8 5
```

```
5 B 15 8 5
```

```
6 B 15 8 5
```

Notice that each of the rows from the original data frame have been repeated three times.

**Example 2: Replicate Each Row a Different Number of Times**

Suppose we have the following data frame with two rows in R:

```
#create data frame
```

```
df <- data.frame(team=c('A', 'B'),
```

```
points=c(10, 15),
```

```
rebounds=c(4, 8),  
assists=c(2, 5))
```

```
#view data frame  
df
```

```
team points rebounds assists  
1 A 10 4 2  
2 B 15 8 5
```

We can use the following syntax to repeat the first row three times and the second row five times:

```
library(dplyr)
```

```
#create new data frame that repeats first row 3 times  
and second row 5 times  
new_df <- df %>% slice(rep(1:n(), times = c(3, 5)))
```

```
#view new data frame  
new_df
```

```
team points rebounds assists  
1 A 10 4 2  
2 A 10 4 2  
3 A 10 4 2
```

**4 B 15 8 5**

**5 B 15 8 5**

**6 B 15 8 5**

**7 B 15 8 5**

**8 B 15 8 5**

**Related:**

**The following tutorials explain how to perform other common operations in dplyr:**

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