

What is the maximum value in each row in R?

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The maximum value in each row in R refers to the largest numerical value present in a particular row of a dataset in the programming language R. This value is determined by comparing all the numbers in the row and selecting the one with the highest numerical value. It is a useful metric for identifying the overall highest value in a dataset and can be used for various analytical and statistical purposes.

Find the Max Value in Each Row in R

You can use the following basic syntax to find the max value in each row of a data frame in R:

```
df$max <- apply(df, 1, max, na.rm=TRUE)
```

This particular syntax creates a new column called max that contains the max value in each row of the data frame.

The following example shows how to use this syntax in practice.

Example: Find the Max Value in Each Row in R

Suppose we have the following data frame in R:

```
#create data frame
```

```
df <- data.frame(points=c(4, NA, 10, 2, 15, NA, 7, 22),  
rebounds=c(NA, 3, 9, 7, 6, 8, 14, 10),  
assists=c(10, 9, 4, 4, 3, 7, 10, 11))
```

```
#view data frame
```

```
df
```

```
points rebounds assists
```

```
1 4 NA 10
```

```
2 NA 3 9
```

```
3 10 9 4
```

```
4 2 7 4
```

```
5 15 6 3
```

```
6 NA 8 7
```

```
7 7 14 10
```

```
8 22 10 11
```

We can use the following syntax to create a new column called max that contains the max value in each row:

```
#add new column that contains max value in each row
```

```
df$max <- apply(df, 1, max, na.rm=TRUE)
```

```
#view updated data frame
```

```
df
```

```
points rebounds assists max
```

```
1 4 NA 10 10
```

```
2 NA 3 9 9
```

3 10 9 4 10
4 2 7 4 7
5 15 6 3 15
6 NA 8 7 8
7 7 14 10 14
8 22 10 11 22

The new column called max contains the max value in each row.

Note: If you don't include `na.rm=TRUE` within the `apply()` function, then NA values will be returned if they exist anywhere in the row.