

# What is the cause of the “Fix: error in do\_one(nmeth) : na/nan/inf in foreign function call (arg 1)” error?

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## RECOMMENDED CITATION

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The "Fix: error in do\_one(nmeth) : na/nan/inf in foreign function call (arg 1)" error is caused by a problem with the input of a foreign function call, specifically with the first argument. This error typically occurs when there are missing or invalid values (NA, NaN, or Inf) present in the data being passed to the function. These values can interfere with the proper execution of the function and cause the error to occur. To fix this error, it is necessary to identify and address the source of the invalid values in the data.

## **Fix: error in do\_one(nmeth) : na/nan/inf in foreign function call (arg 1)**

**One error you may encounter in R is:**

**Error in do\_one(nmeth) : NA/NaN/Inf in foreign function call (arg 1)**

**This error occurs when you attempt to perform but the data frame you're using has one or more missing values.**

**This tutorial shares exactly how to fix this error.**

**How to Reproduce the Error**

**Suppose we have the following data frame in R with a missing value in the second row:**

```
#create data frame
```

```
df <- data.frame(var1=c(2, 4, 4, 6, 7, 8, 8, 9, 9, 12),
```

```
var2=c(12, 14, 14, 8, 8, 15, 16, 9, 9, 11),  
var3=c(22, NA, 23, 24, 28, 23, 19, 16, 12, 15))
```

```
row.names(df) <- LETTERS
```

```
#view data frame
```

```
df
```

```
var1 var2 var3
```

```
A 2 12 22
```

```
B 4 14 NA
```

```
C 4 14 23
```

```
D 6 8 24
```

```
E 7 8 28
```

```
F 8 15 23
```

```
G 8 16 19
```

```
H 9 9 16
```

```
I 9 9 12
```

```
J 12 11 15
```

If we attempt to use the `kmeans()` function to perform k-means clustering on this data frame, we'll receive an error:

```
#attempt to perform k-means clustering with k = 3
```

## clusters

```
km <- kmeans(df, centers = 3)
```

**Error in do\_one(nmeth) : NA/NaN/Inf in foreign function call (arg 1)**

### How to Fix the Error

The easiest way to fix this error is to simply use the function to remove rows with missing values from the data frame:

```
#remove rows with NA values
```

```
df <- na.omit(df)
```

```
#perform k-means clustering with k = 3 clusters
```

```
km <- kmeans(df, centers = 3)
```

```
#view results
```

```
km
```

**K-means clustering with 3 clusters of sizes 4, 3, 2**

**Cluster means:**

```
var1 var2 var3
```

```
1 5.5 14.250000 21.75000
```

**2 10.0 9.666667 14.33333**

**3 6.5 8.000000 26.00000**

**Clustering vector:**

**A C D E F G H I J**

**1 1 3 3 1 1 2 2 2**

**Within cluster sum of squares by cluster:**

**46.50000 17.33333 8.50000**

**(between\_SS / total\_SS = 79.5 %)**

**Available components:**

**"cluster" "centers" "totss" "withinss" "tot.withinss"**

**"betweenss" "size" "iter" "ifault"**

**Notice that the k-means clustering algorithm runs successfully once we remove the rows with missing values from the data frame.**

**Bonus:**