How to fix “Arguments imply differing number of rows” in R?

Authored by

stats writer

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The error "Arguments imply differing number of rows" in R occurs when the Fix function is used and there is a mismatch in the number of rows between the arguments being used. This can happen when a function is applied to multiple data frames or vectors with different lengths. It is important to ensure that the input data has the same number of rows to avoid this error.

Fix in R: Arguments imply differing number of rows

One error you may encounter in R is:

arguments imply differing number of rows: 6, 5

This error occurs when you attempt to create a data frame and the number of rows in each column of the data frame is not the same.

The following example shows how to fix this error in practice.

How to Reproduce the Error

Suppose we attempt to create a data frame in R using three vectors:

```
#define vectors
x1 <- c(1, 2, 3, 4, 5, 6)
x2 <- c(8, 8, 8, 7, 5)
y <- c(9, 11, 12, 13, 14, 16)
```

#attempt to create data frame using vectors as columns
df <- data.frame(x1=x1, x2=x2, y=y)

Error in data.frame(x1 = x1, x2 = x2, y = y) :
arguments imply differing number of rows: 6, 5

We receive an error because each vector does not have the same length, so each column in the resulting data frame does not have the same number of rows.

We can verify this by printing the length of each vector:

#print length of each vector
length(x1)

6

length(x2)

5

length(y)

6

We can see that the vector x2 has a length of 5, which

does not match the length of vectors x1 and y.

How to Fix the Error

To fix this error, we simply need to make sure that each vector has the same length so that each column in the resulting data frame has the same number of rows.

For example, we could pad the shortest vector with NA values so that each vector has the same length:

```
#define vectors
x1 <- c(1, 2, 3, 4, 5, 6)
x2 <- c(8, 8, 8, 7, 5)
y <- c(9, 11, 12, 13, 14, 16)

#pad shortest vector with NA's to have same length as longest vector
length(x2) <- length(y)

#create data frame using vectors as columns
df <- data.frame(x1=x1, x2=x2, y=y)

#view resulting data frame
df

x1 x2 y
```

1 1 8 9

2 2 8 11

3 3 8 12

4 4 7 13

5 5 5 14

6 6 NA 16

Notice that we don't receive an error because each column in the resulting data frame has the same number of rows.

Additional Resources