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## How to write stop function for the best()?

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I finished the first two parts of best() function. But for the stop function, I keep getting error message.

I'm thinking using if sentences, like "if(outcome!=="heart attack"|"heart failure"|"pneumonia"))", and "if (state!=data\$State)", but it seems not right.

Do I get these wrong with the if sentences? If so, what's the right way to write those?

Thank you.

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[Joseph Hu](#)[Signature Track](#)· 9 days ago [🔗](#)

You can use %in%

Type

?`%in%`

to see its usage

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[Xinyue Xu](#)[Signature Track](#)· 9 days ago [🔗](#)

Thank you, it works good.

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[Fatima Vaz Pinto](#) · 4 days ago [🔗](#)

Hi. I read ?`%in%` but can not understand the syntax to use for the stop function.

I first created a vector with the valid arguments. Then one should check if the argument from the function is valid:

```
options<-c(a="heart attack", b="heart failure", c="pneumonia")
```

```
if outcome %in% options
```

and then the stop function. Does it works like that? Does %in% checks if it is in or it is not, because we want to use the stop function if the argument is not in options, right?

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[Ayush Sharma](#) · 7 days ago 🔒

You can also use match function

```
if( match(outcome,c("heart attack", "heart failure", "pneumonia" ), nomatch =  
-1) == -1 ) stop("error here")
```

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[Harsh Agarwalla](#) · 6 days ago 🔒

This code works, but can you please explain why you have used the no match argument 2 times once as **==1** and other time as **==1**.

Thanks

Harsh

↑ 0 ↓ · flag

[Harsh Agarwalla](#) · 6 days ago 🔒

Got it no issues

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[Debdipta Majumdar](#) · 6 days ago 🔒

thanks so much

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[Ayush Sharma](#) · 6 days ago 🔒

match function returns the first index of the position where the outcome matches with the entries of vector.

If there is no match found , you have to specify a value it should return in that case, which I

have chosen as -1 (nomatch = -1).  
Hence if it returns -1, we got a condition of no match.

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**bernadette lauro**

Signature Track

· 6 days ago

I use the following, which gives the correct output, but it repeats the input as well: how to avoid it?

```
stop(paste("Error in best(",state, outcomevar,") : invalid state"))
```

```
> best("TXX", "heart failure")
```

```
Error in best("TXX", "heart failure") :
```

```
Error in best( TXX heart failure ) : invalid state
```

↑ 1 ↓ · flag

**Joseph Hu**

Signature Track

· 6 days ago

**bernadette lauro:**

All you have to do is  
stop("invalid state")

The string "Error in ..." will be automatically added for you.

↑ 0 ↓ · flag

**Kevin** · 5 days ago

Is this part `Error in best("TX", "heart attack1")` part of the requirements?

```
> source("best.R")
> best("TX","heart attack1")
Error in best("TX", "heart attack1") : invalid outcome
```

I thought it just had to be like this but not sure if this can be done?

```
> source("best.R")
> best("TX","heart attack1")
invalid outcome
```

if this output is valid how would this be tested as the input `best("TX", "heart attack1")`  
could be pretty dynamic?

↑ 0 ↓ · flag

Joseph Hu Signature Track · 5 days ago 🔗

Page 2 of the Programming Assignment 3 PDF:

```
> best("BB", "heart attack")
Error in best("BB", "heart attack") : invalid state
> best("NY", "hert attack")
Error in best("NY", "hert attack") : invalid outcome
```

↑ 0 ↓ · flag

Kevin · 5 days ago 🔗

tk: :) was getting ahead of myself but how would you handle this `Error in best("NY", "hert attack")` for testing as it would be dynamic, or would you just hardcode it in your test?

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