

# Assignment 3 : only part 2 of rankall (submit id #9) failing

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[Ravishankar Rajagopalan](#) Signature Track · [10 days ago](#) 🔗

I am passing all other tests other than part 2 of rankall (#9) for which my program produces the following output:

```
> rankall("pneumonia", "worst")

             hospital state
AK          ALASKA NATIVE MEDICAL CENTER    AK
AL          LAKE MARTIN COMMUNITY HOSPITAL   AL
AR          NW ARKANSAS HOSPITALS, LLC       AR
AZ CHINLE COMPREHENSIVE HEALTH CARE FACILITY AZ
CA          EDEN MEDICAL CENTER             CA
CO          BOULDER COMMUNITY HOSPITAL       CO
CT          MANCHESTER MEMORIAL HOSPITAL      CT
DC          <NA>                             DC
DE          DE
FL          PALM BEACH GARDENS MEDICAL CENTER FL
GA          CHESTATEE REGIONAL HOSPITAL      GA
GU          GU
HI          MAUI MEMORIAL MEDICAL CENTER     HI
IA          MERCY MEDICAL CENTER-DUBUQUE     IA
ID          GRITMAN MEDICAL CENTER           ID
IL          RUSH OAK PARK HOSPITAL           IL
IN          COLUMBUS REGIONAL HOSPITAL       IN
KS          DECATUR COUNTY HOSPITAL          KS
KY          BOURBON COMMUNITY HOSPITAL       KY
LA          SPRINGHILL MEDICAL CENTER        LA
MA          MILFORD REGIONAL MEDICAL CENTER  MA
MD          CALVERT MEMORIAL HOSPITAL        MD
ME          CENTRAL MAINE MEDICAL CENTER     ME
MI          MCLAREN FLINT                   MI
MN          UNITY HOSPITAL                   MN
MO          POPLAR BLUFF VA MEDICAL CENTER   MO
MS          LACKEY MEMORIAL HOSPITAL         MS
MT          CLARK FORK VALLEY HOSPITAL       MT
```

NC	CAROLINAS MED CENTER-MERCY	NC
ND	HEART OF AMERICA MEDICAL CENTER	ND
NE	TILDEN COMMUNITY HOSPITAL	NE
NH	VALLEY REGIONAL HOSPITAL	NH
NJ	SHORE MEDICAL CENTER	NJ
NM	EASTERN NEW MEXICO MEDICAL CENTER	NM
NV	BANNER CHURCHILL COMMUNITY HOSPITAL	NV
NY	PUTNAM HOSPITAL CENTER	NY
OH	UNIVERSITY HOSPITALS OF CLEVELAND	OH
OK	CLAREMORE INDIAN HOSPITAL	OK
OR	GOOD SHEPHERD MEDICAL CENTER	OR
PA	CHAMBERSBURG HOSPITAL	PA
PR	HOSPITAL PAVIA HATO REY, INC	PR
RI		RI
SC	CONWAY MEDICAL CENTER	SC
SD	LANDMANN-JUNGMAN MEMORIAL HOSPITAL - CAH	SD
TN	UNIVERSITY OF TN MEMORIAL HOSPITAL	TN
TX	HAMILTON GENERAL HOSPITAL	TX
UT	RIVERTON HOSPITAL	UT
VA	BON SECOURS - ST FRANCIS MEDICAL CENTER	VA
VI		VI
VT	GRACE COTTAGE HOSPITAL	VT
WA	LEGACY SALMON CREEK MEDICAL CENTER	WA
WI	COMMUNITY MEM HSPTL	WI
WV	CAMDEN CLARK MEDICAL CENTER	WV
WY	SHERIDAN MEMORIAL HOSPITAL	WY

Warning messages:

```
1: In rankall("pneumonia", "worst") : NAs introduced by coercion
2: In rankall("pneumonia", "worst") : NAs introduced by coercion
3: In rankall("pneumonia", "worst") : NAs introduced by coercion
4: In rankall("pneumonia", "worst") : NAs introduced by coercion
```

What is the expected output? I'm using R Studio 0.99.42 on Windows 7

Thanks

↑ 0 ↓ · flag

[Ravishankar Rajagopalan](#) Signature Track · 10 days ago 🔗

Previous post, it had yanked out some NA's please take a look at this one instead.

```
> rankall("pneumonia", "worst")
             hospital state
AK      ALASKA NATIVE MEDICAL CENTER    AK
AL      LAKE MARTIN COMMUNITY HOSPITAL    AL
AR      NW ARKANSAS HOSPITALS, LLC      AR
AZ CHINLE COMPREHENSIVE HEALTH CARE FACILITY    AZ
CA      EDEN MEDICAL CENTER      CA
```

CO	BOULDER COMMUNITY HOSPITAL	CO
CT	MANCHESTER MEMORIAL HOSPITAL	CT
DC	<NA>	DC
DE	<NA>	DE
FL	PALM BEACH GARDENS MEDICAL CENTER	FL
GA	CHESTATEE REGIONAL HOSPITAL	GA
GU	<NA>	GU
HI	MAUI MEMORIAL MEDICAL CENTER	HI
IA	MERCY MEDICAL CENTER-DUBUQUE	IA
ID	GRITMAN MEDICAL CENTER	ID
IL	RUSH OAK PARK HOSPITAL	IL
IN	COLUMBUS REGIONAL HOSPITAL	IN
KS	DECATUR COUNTY HOSPITAL	KS
KY	BOURBON COMMUNITY HOSPITAL	KY
LA	SPRINGHILL MEDICAL CENTER	LA
MA	MILFORD REGIONAL MEDICAL CENTER	MA
MD	CALVERT MEMORIAL HOSPITAL	MD
ME	CENTRAL MAINE MEDICAL CENTER	ME
MI	MCLAREN FLINT	MI
MN	UNITY HOSPITAL	MN
MO	POPLAR BLUFF VA MEDICAL CENTER	MO
MS	LACKEY MEMORIAL HOSPITAL	MS
MT	CLARK FORK VALLEY HOSPITAL	MT
NC	CAROLINAS MED CENTER-MERCY	NC
ND	HEART OF AMERICA MEDICAL CENTER	ND
NE	TILDEN COMMUNITY HOSPITAL	NE
NH	VALLEY REGIONAL HOSPITAL	NH
NJ	SHORE MEDICAL CENTER	NJ
NM	EASTERN NEW MEXICO MEDICAL CENTER	NM
NV	BANNER CHURCHILL COMMUNITY HOSPITAL	NV
NY	PUTNAM HOSPITAL CENTER	NY
OH	UNIVERSITY HOSPITALS OF CLEVELAND	OH
OK	CLAREMORE INDIAN HOSPITAL	OK
OR	GOOD SHEPHERD MEDICAL CENTER	OR
PA	CHAMBERSBURG HOSPITAL	PA
PR	HOSPITAL PAVIA HATO REY, INC	PR
RI	<NA>	RI
SC	CONWAY MEDICAL CENTER	SC
SD	LANDMANN-JUNGMAN MEMORIAL HOSPITAL - CAH	SD
TN	UNIVERSITY OF TN MEMORIAL HOSPITAL	TN
TX	HAMILTON GENERAL HOSPITAL	TX
UT	RIVERTON HOSPITAL	UT
VA	BON SECOURS - ST FRANCIS MEDICAL CENTER	VA
VI	<NA>	VI
VT	GRACE COTTAGE HOSPITAL	VT
WA	LEGACY SALMON CREEK MEDICAL CENTER	WA
WI	COMMUNITY MEM HSPTL	WI
WV	CAMDEN CLARK MEDICAL CENTER	WV
WY	SHERIDAN MEMORIAL HOSPITAL	WY

↑ 0 ↓ · flag



Leonard Greski

Signature Track

· 10 days ago

It looks like your approach to find the "worst" state is not working correctly. Every one of the 54 states & territories with valid data has at least one hospital, so there should be a valid result for all states when you run "best" and "worst". See AI's printout below...

regards,

Len

↑ 0 ↓ · flag

[+ Comment](#)



AI Warren · 10 days ago

```
rankall("pneumonia", "worst")
```

##	hospital	state
## AK	ALASKA NATIVE MEDICAL CENTER	AK
## AL	JACKSONVILLE MEDICAL CENTER	AL
## AR	RIVER VALLEY MEDICAL CENTER	AR
## AZ	HAVASU REGIONAL MEDICAL CENTER	AZ
## CA	DELANO REGIONAL MEDICAL CENTER	CA
## CO	ST MARYS HOSPITAL AND MEDICAL CENTER	CO
## CT	MILFORD HOSPITAL, INC	CT
## DC	GEORGETOWN UNIVERSITY HOSPITAL	DC
## DE	CHRISTIANA CARE HEALTH SERVICES, INC.	DE
## FL	SEVEN RIVERS REGIONAL MEDICAL CENTER	FL
## GA	MCDUFFIE REGIONAL MEDICAL CENTER	GA
## GU	GUAM MEMORIAL HOSPITAL AUTHORITY	GU
## HI	MAUI MEMORIAL MEDICAL CENTER	HI
## IA	BURGESS HEALTH CENTER	IA
## ID	BEAR LAKE MEMORIAL HOSPITAL	ID
## IL	ST JOHNS HOSPITAL	IL
## IN	INDIANA UNIVERSITY HEALTH LA PORTE HOSPITAL	IN
## KS	WESTERN PLAINS MEDICAL COMPLEX	KS
## KY	CALDWELL MEDICAL CENTER	KY
## LA	TERREBONNE GENERAL MEDICAL CENTER	LA
## MA	ATHOL MEMORIAL HOSPITAL	MA
## MD	CIVISTA MEDICAL CENTER	MD
## ME	MID COAST HOSPITAL	ME
## MI	ASPIRUS GRAND VIEW HOSPITAL	MI
## MN	GLACIAL RIDGE HOSPITAL	MN
## MO	UNIVERSITY OF MISSOURI HEALTH CARE	MO
## MS	BOLIVAR MEDICAL CENTER	MS

## MT	GLENDIVE MEDICAL CENTER	MT
## NC	VIDANT EDGEcombe HOSPITAL	NC
## ND	OAKES COMMUNITY HOSPITAL	ND
## NE	MEMORIAL COMMUNITY HOSPITAL	NE
## NH	LAKES REGION GENERAL HOSPITAL	NH
## NJ	BERGEN REGIONAL MEDICAL CENTER	NJ
## NM	UNM HOSPITAL	NM
## NV	RENOWN REGIONAL MEDICAL CENTER	NV
## NY	ONEIDA HEALTHCARE CENTER	NY
## OH	COSHOCTON COUNTY MEMORIAL HOSPITAL	OH
## OK	MERCY MEMORIAL HEALTH CENTER	OK
## OR	BAY AREA HOSPITAL	OR
## PA	POTTSTOWN MEMORIAL MEDICAL CENTER	PA
## PR	HOSPITAL SAN CARLOS BORRAMEO	PR
## RI	SOUTH COUNTY HOSPITAL INC	RI
## SC	LAURENS COUNTY HEALTHCARE SYSTEM	SC
## SD	HURON REGIONAL MEDICAL CENTER	SD
## TN	ATHENS REGIONAL MEDICAL CENTER	TN
## TX	LIMESTONE MEDICAL CENTER	TX
## UT	CASTLEVIEW HOSPITAL	UT
## VA	SENTARA LEIGH HOSPITAL	VA
## VI	ROY LESTER SCHNEIDER HOSPITAL, THE	VI
## VT	PORTER HOSPITAL, INC	VT
## WA	OLYMPIC MEDICAL CENTER	WA
## WI	MAYO CLINIC HEALTH SYSTEM - NORTHLAND, INC	WI
## WV	PLATEAU MEDICAL CENTER	WV
## WY	NORTH BIG HORN HOSPITAL DISTRICT	WY

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[Ravishankar Rajagopalan](#) Signature Track · 10 days ago [🔗](#)

Thanks for your inputs everyone. It's working now. Though a very strange bug which I'm unable to figure out. The initially commented portion is what used to assign the value of rank. sorted\_frame is a frame which contains data only for the state of RI and in sorted order. Earlier this rank was showing up as 14 for state RI when I used to print it in if (state == "RI"). In the next line if I print(nrow(sorted\_frame)), it gives me 11. Finally I'm doing the same thing downstream and it all works. The submission is successful but this puzzles me.

```
#Check if the rank is a word and if so set it to appropriate
# number

#         if (is.na(rank)) {
#             if (num == "best") {
```

```
#           rank = 1
#       }
#       if (num == "worst") {
#           print("Now in worst")
#           rank <- nrow(sorted_frame)
#           print(nrow(sorted_frame))
#       }
#   }
#   print("Got rank")
#   print(rank)
#   print("Got number of rows")
#   print(nrow(sorted_frame))

ret_state <- state

#print(paste("Sorted frame is State ", sorted_frame$State, ", Hosp is ", sorte
d_frame[,2]))

#       if (state == "RI") {
#           print("Sorted frame is State ")
#           #print(rank)
#           print(nrow(sorted_frame))
#           print(sorted_frame[,2])
#           print(nrow(sorted_frame))
#       }

#       if (num == "worst") {
#           rank <- nrow(sorted_frame)
#           print("Getting rank in new if")
#           print(rank)
#       }

#       if (num == "best") {
#           rank = 1
#       }
```

↑ 0 ↓ · flag

[+ Comment](#)



Shruti Singh

Signature Track

· 10 days ago



Hi,

I am facing exactly similar problem with the part 2 of rankall (). The "worst" scenario gives the wrong output for me.

I am assigning the last row index (by using nrow()) of the sorted data frame to rank variable

Other parts of the program seem to work correctly except the worst rank scenario .

Can anyone please have a look at my code :

```
study<-function(outcome,num="best")
{
  data<-read.csv("outcome-of-care-measures.csv",na.strings = "Not Available")

  if (outcome == "heart attack") {outcom ecol<-11 }
  else if (outcome == "heart failure") {outcom ecol<-17}
  else if (outcome == "pneumonia") {outcom ecol<-23}
  else {stop("invalid outcome")}

  states<-levels(data[,7])
  outdata<-vector()
  if (num == "best") {rank<-1}
  else rank<-num
  for(i in 1:54)
  {
    statedata<-data[grepl(states[i],data$State),]
    statedata[,outcom ecol]<-suppressWarnings(as.numeric(statedata[,outcom ecol]))

    orderdata<-statedata[order(statedata[,outcom ecol],statedata$Hospital.Name),]

    ##good<-orderdata[complete.cases(orderdata),]
    ##print(states[i])
    ##print(nrow(good))

    if (num == "worst")
    {
      ###gooddata<-orderdata[complete.cases(orderdata),]
      ###gooddata<-na.omit(orderdata)
      rank<-nrow(orderdata)
      print(states[i])
      print(rank)
      print(nrow(statedata))
      print(nrow(orderdata))
      ## print(nrow(good))
    }

    if(rank > nrow(statedata)) {
      x<-NA
      orderdata[rank,2]<-NA
      orderdata[rank,7]<-states[i]
      outdata<-append(outdata,as.character(orderdata[rank,2]))
    }
  }
}
```

```

        outdata<-append(outdata,as.character(orderdata[rank,7]))
    }

    else
    {
        outdata<-append(outdata,as.character(orderdata[rank,2]))
        outdata<-append(outdata,as.character(orderdata[rank,7]))
    }

}

outdata<-as.data.frame(matrix(outdata,54,2,byrow=TRUE))
colnames(outdata)<-c("Hospital","State")
rownames(outdata)<-states
return(outdata)
}

```

↑ 0 ↓ · flag



Shruti Singh

Signature Track

· 10 days ago 🔒

I even tried to use complete.cases to remove the missing values , in order to take good rows from the sorted data as in the commented section of the code. But even that approach does not seem to work.

↑ 0 ↓ · flag

Alireza Abdoli · 10 days ago 🔒

You can remove NAs while doing the ordering process; if you check ?order you see an argument na.last in case you put na.last = NA that removes NA values for you.

Also, you can pass multiple columns to order which causes the data to be ordered by specified columns.

e.g. order(data[, 2], data[, 4], na.last = NA) sorts data by second and fourth columns respectively while at the same time removing NA values.

↑ 0 ↓ · flag



Shruti Singh

Signature Track

· 10 days ago 🔒

Removing the NA values(using na.last) during sorting process did help. The code is already handling ties by passing multiple columns to the order().

Many thanks for your suggestion!!

--

Regards,

Shruti

↑ 0 ↓ · flag



[+ Comment](#)

Javier Mira Fernandez · 10 days ago

don't use complete.cases, there is no need of doing that.

I'm not sure about this but I think you are not handling ties as expected. When 2 hospitals of the same state have equal rates the next criteria for the rank is the hospital's name.

↑ 0 ↓ · flag



Shruti Singh Signature Track · 10 days ago

Yes, using na.last argument helped.

Many thanks for your help !!

--

Regards,

Shruti

↑ 0 ↓ · flag

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