

# 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

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Ravishankar Rajagopalan Signature Track · 10 days ago 

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

		hospital state
> 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

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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 Al's printout below...

regards,

Len

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+ Comment



Al 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          GLENDALE 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 BORROMEO 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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+ Comment

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 ", sorted_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
}
```

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+ 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 asssigned 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") {outcomecol<-11 }
  else if (outcome == "heart failure") {outcomecol<-17}
  else if (outcome == "pneumonia") {outcomecol<-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[grep(states[i],data$State),]
    statedata[,outcomecol]<-suppressWarnings(as.numeric(statedata[,outcomecol]))

    orderdata<-statedata[order(statedata[,outcomecol],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)
}

```

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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.

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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.

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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 mutiple columns to the order().

Many thanks for your suggestion!!

--  
Regards,  
Shruti

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[+ 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.

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Shruti Singh Signature Track · 10 days ago

Yes, using na.last argument helped.

Many thanks for your help !!

--

Regards,

Shruti

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