

Northwest Universities R Day 2018 - Pub Quiz

Northwest Universities R Day Organisers

31 October 2018

🕷 I see dead people 🕷

Question 01

What is the name of a famous science fiction author who die in 2 September 1973 and has “RR” as their middle initials?

Question 02

Sir Ronald Aylmer Fisher was a British statistician and geneticist who die in 29 July 1962. Where do the remains of R. A Fisher lie?

Question 03

What is the name of the British statistician who die in 28 March 2013 and said “All models are wrong but some are useful”?

Question 04

What is the name of the British statistician who die in 17 January 1911 and is credited with first using the term “regression” to describe the relationship between two variables?

Question 05

What well-known company hired the (now deceased), pseudonymous “Student” (a.k.a. William Sealy Gosset) in 1899?

Question 06

What famous female historical figure die in 13 August 1910 and is credited with innovative use of information graphics, like the polar area diagram?

Question 07

What is the name of the scientist that die in 1 April 1922 and is know for designed the ink blot test, a personality test that involves the evaluation of a subject’s response to ambiguous ink blots and used to analyze inner thoughts, feelings, and personality traits?

🕷 The R-things 🕷

Question 08

What is the English name for the widespread species *Corvus corax*, often associated with death?

Question 09

“Sister cities or twin towns are a form of legal or social agreement between towns (...) in geographically and politically distinct areas to promote cultural and commercial ties.” (Wikipedia)
What is the name of the town in Greater Manchester that starts with R and has Bielefeld in Germany, Tourcoing in France, Sahiwal in Pakistan and Lviv in Ukraine as twinning city/town?

Question 10

Name the 2017 Nobel Laureate in Economics who besides his recognition for contributions to behavioural economics has also reached fame in popular culture, for example making a cameo next to Selena Gomez in ‘The Big Short’.

Question 11

On the TV show “Buffy, the Vampire Slayer”, which run between 1996 and 2003, what is the name of Buffy Summers’ teacher and mentor?

Question 12

Mary Shelley famous book “The Modern Prometheus”, also know as “Frankenstein” is narrated through a fictional correspondence between the Captain of the boat which picked up Victor Frankenstein, the crazed scientists who created a monster. What is the name of this captain?

Question 13

What is the name of the English inventor and son of John Kay, best known for designing a drop box to improve the capability of weaving looms?

Question 14

“Wraith is a Scottish dialectal word for ‘ghost’ or ‘spirit’.” (Wikipedia) It is also the name of a 4 seat luxury car. Which company the Wraith?

Question 15

On the cinematic adaptation of J. K. Rowling’s novel Harry Potter, what is the role cast by Rupert Alexander Lloyd Grint?

R-related questions

Question 16

Which one of these data sets is not in the R `datasets` package:

- A. `Apple` , Growth of Apple Trees
- B. `Titanic` , Survival of passengers on the Titanic
- C. `UKDriverDeaths` , Road Casualties in Great Britain 1969-84
- D. `UKLungDeaths` , Monthly Deaths from Lung Diseases in the UK
- E. `UKgas` , UK Quarterly Gas Consumption

Question 17

If you get the error

```
Error in gather(data, id = c("id", "time")): could not find function
"gather"
```

which package have you forgotten to load?

- A. dplyr
- B. tibble
- C. resize2
- D. reshape2
- E. tidyr

Question 18

What colour is your chart background if you use `theme_excel()` from the `ggthemes` package?

- A. White
- B. Yellow
- C. Gray or dark gray
- D. Silver or light gray
- E. Blue

Question 19

The family of apply functions pertains to the R base package, and is populated with functions to manipulate slices of data from matrices, arrays, lists and data frames in a repetitive way. For example the `lapply` function takes list, vector or data frame as input and returns only list as output. Which one of these is not a function in the apply family:

- A. `vapply`
- B. `mapply`
- C. `rapply`
- D. `tapply`
- E. `papply`

Question 20

When using `stringr` v1.3.1, which one of the following options isn't a valid function name?

- A. `str_c`
- B. `str_find`
- C. `str_length`
- D. `str_replace`
- E. `str_trunc`

 Some coding questions 

Question 21

Given

```
v <- c(104, 97, 108, 108, 111, 119, 101, 101, 110)
```

Match the following codes with their result.

Codes	Result
1. intToUtf8(v)	A. CIV, XCVII, CVIII, CVIII, CXI, CXIX, CI, CI, CX
2. v %% 2	B. 0, 1, 0, 0, 1, 1, 1, 1, 0
3. v %/% 2	C. 52, 48, 54, 54, 55, 59, 50, 50, 55
4. as.roman(v)	D. TRUE, TRUE, TRUE, TRUE, TRUE, TRUE, TRUE, TRUE, TRUE
5. as.hexmode(v)	E. halloween
6. as.logical(v)	F. 68, 61, 6c, 6c, 6f, 77, 65, 65, 6e

Question 22

Given

year	month	day	dep_time	dep_delay	arr_time	arr_delay	carrier	flight	origin	dest
2013	1	1	517	2	830	11	UA	1545	EWR	IAH
2013	1	1	533	4	850	20	UA	1714	LGA	IAH
2013	1	1	542	2	923	33	AA	1141	JFK	MIA
2013	1	1	544	-1	1004	-18	B6	725	JFK	BQN
2013	1	1	554	-6	812	-25	DL	461	LGA	ATL

Replace `#####` with the name of one function in

```
flights %>%
  #####(year, month, day) %>%
  #####(arr_delay, dep_delay) %>%
  #####(
    arr = mean(arr_delay, na.rm = TRUE),
    dep = mean(dep_delay, na.rm = TRUE)
  ) %>%
  #####(arr > 30 | dep > 30)
```

for have the output as show below.

year	month	day	arr	dep
2013	1	16	34.24736	24.61287
2013	1	31	32.60285	28.65836
2013	2	11	36.29009	39.07360
2013	2	27	31.25249	37.76327
2013	3	8	85.86216	83.53692

Question 23

When using Shiny v1.1.0, which of the options below isn't a valid input type?

- A. `sliderInput("dynamic", "Dynamic", min = 1, max = 20, value = 10)`
- B. `utf8Input("dynamic", "Dynamic", value = "starting value")`
- C. `numericInput("dynamic", "Dynamic", value = 12)`
- D. `checkboxInput("dynamic", "Dynamic", value = TRUE)`
- E. `dateInput("dynamic", "Dynamic")`

Question 24

Write a valid documentation to the source file below that will be processed by roxygen2 v6.1.0.

```
trick.or.treat <- function(house.number) {  
  return("treat")  
}
```

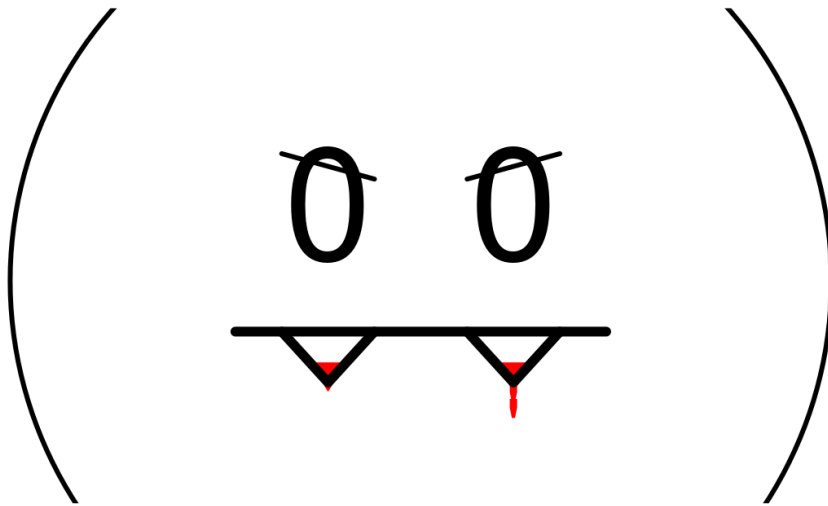
Question 25

When using testthat v2.0.0, which one of the following options the test will pass?

- A. `test_that("halloween", { expect_equal(10, 10 + 1e-7) })`
- B. `test_that("halloween", { expect_equal(log(-1)), NaN })`
- C. `test_that("halloween", { expect_equal(TRUE, 1) })`
- D. `test_that("halloween", { expect_equal(48, "0") })`
- E. `test_that("halloween", { expect_match("trick or treat", "treat") })`

🕷 Tie breaker 🕷

Reproduce the image below using R.



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🕷 Support 🕷

