

49 R Language interview questions to ask your applicants

Questions

1. Can you explain what R is and why it is used?
2. How do you handle missing values in an R dataset?
3. What is a data frame in R?
4. Can you explain what factors are in R and why they are used?
5. How would you merge two data frames in R?
6. What is the difference between a matrix and a data frame in R?
7. How do you install and load a package in R?
8. Can you explain what the apply family of functions is in R?
9. How do you read a CSV file into R?
10. What is the difference between the functions `read.csv()` and `read.csv2()`?
11. Can you explain how to use the `subset()` function in R?
12. Describe the process of creating a scatter plot using `ggplot2`.
13. How would you handle outliers in your dataset in R?
14. What is the purpose of the `dplyr` package?
15. Explain the use of the `filter()` function in `dplyr`.
16. How do you perform a t-test in R?
17. What is the command to create a histogram in R?
18. Discuss the difference between `lapply()` and `sapply()`.
19. How do you convert a character vector to a factor in R?
20. What is the `str()` function used for?
21. Can you demonstrate how to create and interpret a boxplot in R?
22. Explain the `mutate()` function in `dplyr`.
23. How do you write a function in R?
24. What is the difference between `plot()` and `qplot()`?
25. Describe a situation where you would use the `aggregate()` function.
26. How do you perform linear regression in R?
27. What is the purpose of the `summary()` function in R?
28. Explain the `group_by()` function in `dplyr`.
29. How do you rename columns in a data frame in R?
30. What steps would you take to filter rows in a data frame based on a condition?
31. How do you add a new column to an existing data frame in R?
32. How would you sort a data frame by multiple columns?
33. Can you explain how to remove duplicate rows from a data frame?
34. How do you combine data frames by rows in R?
35. How would you pivot data from wide format to long format?
36. What is your approach to summarizing data in R?
37. How do you handle and change data types in R?
38. How would you perform and interpret a chi-square test in R?
39. Can you explain how to conduct a one-way ANOVA using R?
40. What R functions would you use to check for normality in a dataset?
41. How do you create and interpret a Q-Q plot in R?
42. Explain how you would perform a multiple linear regression in R and interpret the results.
43. How would you handle multicollinearity in a regression model using R?
44. Can you describe the process of conducting a logistic regression in R?
45. What R packages would you use for time series analysis, and why?
46. How do you perform and interpret a Wilcoxon rank-sum test in R?
47. Explain how you would conduct a power analysis for a t-test in R.
48. How would you create and interpret a correlation matrix in R?
49. Can you explain how to perform k-means clustering in R and determine the optimal number of clusters?