

72 Perl interview questions to assess developers' skills

Questions

1. What are the key features of Perl that make it suitable for text processing?
2. How does Perl handle variables differently from other programming languages?
3. Explain the concept of references in Perl and how they are used.
4. What are Perl modules, and how do you use them in your programs?
5. How does Perl handle exception handling and error management?
6. What are Perl's strengths and weaknesses compared to other scripting languages?
7. How do you optimize Perl code for better performance?
8. Explain the concept of context in Perl and how it affects variable behavior.
9. How do you handle database operations in Perl?
10. What are some best practices for writing maintainable Perl code?
11. Can you explain what a scalar variable is in Perl and give an example?
12. How do you create and use an array in Perl?
13. What is the difference between single quotes and double quotes in Perl strings?
14. How do you write a simple 'Hello, World!' program in Perl?
15. What is the purpose of the 'use strict' pragma in Perl?
16. How do you read input from the command line in a Perl script?
17. Explain the concept of 'chomp' in Perl and when you might use it.
18. How do you write a basic for loop in Perl?
19. What is the purpose of the '\$_' variable in Perl?
20. How do you open and read a file in Perl?
21. What is a hash in Perl and how is it different from an array?
22. How do you define and call a subroutine in Perl?
23. What does the '=~' operator do in Perl?
24. How do you use regular expressions in Perl?
25. What is the difference between 'my' and 'local' variables in Perl?
26. How do you concatenate strings in Perl?
27. What is the purpose of the 'die' function in Perl?
28. How do you check if a file exists using Perl?
29. What is the difference between 'shift' and 'pop' in Perl arrays?
30. How do you split a string into an array in Perl?
31. How would you describe the role of regular expressions in Perl?
32. Can you explain the process of opening, reading, and closing a file in Perl?
33. How can you search for a specific pattern in a text file using Perl?
34. What are some common file handling errors in Perl and how do you handle them?
35. How would you extract and manipulate specific data from a text file using Perl?
36. Explain how you can use Perl to search and replace text in a file.
37. What are some best practices for using regular expressions in Perl for text processing?
38. How would you handle large files in Perl to ensure efficient processing?
39. How would you match a string that contains only digits in Perl?
40. Explain how you would use a regular expression to find and extract email addresses from a text file.
41. What does the 'g' modifier do in a Perl regular expression?
42. How can you substitute all occurrences of a pattern in a string with another string?
43. Describe how you would use a named capture group in a Perl regular expression.
44. What is the difference between greedy and non-greedy matching in Perl regex?
45. Can you explain the use of the 'm' modifier in Perl regular expressions?
46. How would you split a string by whitespace using a Perl regular expression?
47. Describe a scenario where you would use lookahead or lookbehind assertions in Perl regex.
48. How can you match a literal dot (.) character in a Perl regular expression?
49. Explain the use of the '^' and '\$' anchors in Perl regex.
50. How would you write a Perl regular expression to validate a phone number format?
51. Can you explain what CPAN is and why it is important for Perl development?
52. How do you install a Perl module from CPAN?
53. What is the purpose of the 'CPAN' module, and how do you use it?
54. Describe how you would update a Perl module to its latest version from CPAN.
55. How can you resolve dependencies when installing a Perl module from CPAN?
56. What are some commonly used Perl modules that you have worked with, and how have you used them in your projects?
57. Explain how you would create your own Perl module and publish it to CPAN.
58. What tools or commands do you use to search for Perl modules on CPAN?
59. How do you handle version control for Perl modules in your projects?
60. Can you discuss a scenario where you had to troubleshoot an issue with a CPAN module?
61. What is 'local::lib' and how does it help in managing Perl modules?
62. How do you ensure the security and reliability of Perl modules sourced from CPAN?
63. Describe a situation where you had to debug a complex Perl script. How did you approach it?
64. Can you provide an example of a time when you had to integrate Perl with another language or system? What challenges did you face and how did you overcome them?
65. How do you handle memory management in Perl during large-scale data processing tasks?
66. Have you ever had to optimize a Perl script for performance? What steps did you take?
67. Explain a scenario where you used Perl to automate a repetitive task. What was the outcome?
68. Describe a time when you had to refactor existing Perl code. What was your approach and what were the results?
69. Can you discuss a challenging bug you encountered in a Perl project and how you resolved it?
70. How do you manage dependencies in a Perl project to ensure smooth deployment and maintenance?