61 IBM CL Programming interview questions to assess candidates at all levels

Questions

1. What is the purpose of the CL programming language in IBM i systems?

2. Can you explain the difference between a CL program and a CL command?

3. How do you declare variables in a CL program, and what are the different variable types?

4. What is the significance of the GO TO command in CL programming?

5. Describe how to handle errors in a CL program.

6. What are the common data types used in CL programming?

7. How can you call a RPG program from a CL program?

8. What is the purpose of the DLTOVR command?

9. Can you explain the use of the CHGJOB command in a CL program?

10. How do you create and use subprocedures in CL programming?

11. What is a data area, and how is it used in CL?

12. Explain the function of the MONITORS and DO statements in CL programming.

13. How do you pass parameters to a CL program?

14. What is the difference between the SNDPGMMSG and SNDUSRMSG commands?

15. Can you discuss the importance of the OVRPRTF command in print file handling?

16. Can you describe the role of control language (CL) within IBM i systems?

17. What steps would you take to troubleshoot a failing CL program?

18. How do you ensure security and authorization within a CL program?

19. What is the importance of using libraries in CL programming?

20. How do you handle large data processing tasks in CL?

21. Can you explain the importance of message handling in CL programming?

22. How do you manage job scheduling in IBM i systems using CL?

23. What are some common challenges faced in CL programming and how do you overcome them?

24. How would you use the RTVJOBA command in a CL program, and what information can you retrieve with it?

25. Explain the concept of a control boundary in CL programming and its significance.

26. How do you implement conditional compilation in CL programs?

27. Describe the purpose and usage of the QCMDEXC API in CL programming.

28. What is the difference between *LIBL and *CURLIB when specifying a library in CL commands?

29. How would you use the DLYJOB command in a CL program, and what are its practical applications?

30. Explain the concept of a data queue and how it can be used in CL programming.

31. How do you implement error handling for database operations in a CL program?

32. What is the purpose of the SBMJOB command, and how would you use it in a CL program?

33. Describe the process of creating and using a user-defined command in CL programming.

34. How do you implement logging and auditing in a CL program?

35. Explain the use of the QSYS2/SQL_EXECUTE procedure in CL programming and its advantages.

36. How would you use the DSPJOB command to troubleshoot a running job?

37. Can you explain the purpose of the STRDBG command in CL programming?

38. How do you use the DSPLOG command to investigate system issues?

39. What is the significance of the MONMSG command in error handling for CL programs?

40. How would you use the DSPPGMREF command to analyze program dependencies?

41. Can you describe how you would use the DSPJOBLOG command to troubleshoot a failed job?

42. How would you use the TRCJOB command to diagnose performance issues in a CL program?

43. How do you integrate CL programs with external systems, and what methods do you use?

44. Can you explain the process of using APIs in conjunction with CL programming?

45. How would you handle file transfers between CL programs and other applications?

46. What strategies do you implement for data synchronization between CL programs and external databases?

47. Describe how you can use CL programming to automate data import/export processes.

48. Can you discuss the role of the Integrated File System (IFS) in CL programming for system integration?

49. How do you implement message queueing for inter-program communication in CL?

50. What are the best practices for securing data exchanged between CL programs and other systems?

51. How do you monitor the performance of integrated CL applications, and what metrics do you track?

52. Can you provide an example of a challenging integration project you completed using CL programming?

53. You need to create a CL program that processes a large number of records from a database file. How would you structure the program to ensure efficient processing and error handling?

54. A critical batch job fails during overnight processing. Describe the steps you would take to diagnose the issue using CL commands and programs.

55. Your team needs to implement a new automated backup system using CL programming. What key components and commands would you include in your solution?

56. You've been asked to create a CL program that interfaces with a web service to retrieve and process data. How would you approach this task?

57. Explain how you would use CL programming to create a system monitoring tool that alerts administrators of potential issues.

58. A legacy CL program is causing performance issues. How would you analyze and optimize it?

59. Describe how you would implement a CL program to manage user profiles, including creation, modification, and deletion.