

Java Vocabulary Study List

Coding Bootcamp



SOFTWARE-GUILD

Java Study List

Overview

This document contains a list of basic Java concepts that you should know and be comfortable discussing in preparation for technical interviews and your first days on the job.

1. What is a variable?
2. What is a variable declaration?
3. What is a variable assignment?
4. What makes up a method's signature?
5. What is a method parameter?
6. What is a method body?
7. What is a class?
8. What is an object?
9. What is the heap?
10. What does the public keyword mean?
11. What does the static keyword mean?
12. What does the private keyword mean?
13. What does the final keyword mean?
14. What does the protected keyword mean?
15. What is an interface?
16. What is an array?
17. What does the abstract keyword mean? How is it used in conjunction with classes?
18. What is an ArrayList?
19. What is a List? How is it different than an ArrayList?
20. What is inheritance?
21. What is polymorphism?
22. What does the term override mean?
23. What does the term overload mean?
24. What is a HashMap?
25. What is a Map? How is it different than a HashMap?
26. What is a Collection?
27. What is an iterator?
28. What is the difference between a while loop and a do/while loop?
29. What is a switch statement?
30. What is an exception?

31. What is an unchecked exception?
32. What is a checked exception?
33. What is a runtime exception?
34. What does encapsulation mean?
35. What does it mean if a class is cohesive?
36. What is the single responsibility principle?
37. What is data hiding?
38. What does it mean if one class is derived from another class?
39. What does it mean if one class extends another class?
40. What is a base class?
41. What is an abstract base class?
42. What is a superclass?
43. What is a subclass?
44. What is specialization?
45. What does it mean to be loosely coupled?
46. Why is it a good idea to split your applications into layers?
47. What does it mean to cast a variable?
48. What does a finally block do?
49. What is a try/catch?
50. What does the throws keyword mean?
51. How is the import keyword used?
52. What is a package?
53. What is JavaDoc?
54. What is scope?
55. What does API stand for?
56. What is an accessor?
57. What is a mutator?
58. What is a constructor?
59. What does the term generic mean?
60. What are the two categories of nested classes?
61. What is a local class?
62. What is a static nested class?
63. What level of access to the properties and methods of the enclosing class does a static nested class have?
64. Under what conditions can a local class access variables in the enclosing scope?

65. What is shadowing?
66. What is composition? How is it used?
67. What is the default constructor?
68. Is the Java language pass by value or pass by reference?
69. What does pass by value mean?
70. What does pass by reference mean?
71. What is the stack? What kinds of variables are created there?
72. What is garbage collection?
73. How does the garbage collector know when to return memory to the heap?
74. What is a lambda?
75. What is a stream (in the context of the new Java 8 Collection API)?
76. What are aggregate operations?
77. What is a pipeline?