1. What is the difference between String, StringBuilder, StringBuffer?
2. String s1 = “jack”; String s2 = new String(“jack”); Check s1==s2? S1.equals(s2)?
3. Write “main” method
4. What is multiple inheritance? Does java support it?
5. Different between Abstract class and Interface?
6. What is marker interface? Given an example of maker interface
7. Write java program to explain static and dynamic polymorphism
8. Write java program to create Singleton design pattern
9. Difference between ArrayList and LinkedList and their time complexity in insert and read?
10. If you define a customized “Student” class with id and name, you want to save it to a hash map as map key. What do you need to do in the Student class?
11. Explain how HashMap works internally
12. If you want to remove one element from an ArrayList, can you use for-loop? If not what will you use?
13. What is checked and unchecked exception? Given each an example
14. What are two ways to create a java thread?
15. What is an ExecutorService? Given an example of how you have used ExecutorService.
16. Given an ArrayList including all US states. Write a program using java 8 stream and lambda to return all states starting with letter ‘N’, for example New Jersey, New York.
17. What is functional interface
18. Given an “Employee” table including columns: id, name, department. 1.Write a SQL to find the total num for each department. Your result should include two columns with column name as Department and TotalNum; 2.Only show TotalNum more than 5 people; 3) sorted in descending order according to department.
19. Difference between final, finally, finalize
20. How to push your local code to your remote repository and update your own forked repository.
21. Draw a diagram to show the data flow chain in enterprise project. Diagram show include front-end, database, dao, service, controller.
22. Write a program to reverse a string.