

- #1. String is immutable. It can't be changed.

 String Evilder and String Buffer both are mutable.

 But String Buffer is thread safe while String Builder is faster and more efficient.
- #2. OS1 == S2 : False

 B S1. equals.(S2) : True.
- #3. Public static void main (Stringt) args () {
- #4. Muttiple inheritance is one class inherits muttiple different class.

 (extends)

 Java does not support muttiple inheritance (extends), but it supports muttiple implements from interface.
- # 5. O multiple Abstract class shows does not support multiple inheritance.

 But interface can do multiple implements.
 - 2) Abstract class how its constructor while interface closes there it.

 B) abstract class can have abstract method and non-abstract method, while interface can only have abstract method.
- #6. Maker interface in java is an interface which does not have any method.

For Example: serialization.

#7. Startic poly morphism: overload

public class Person {

public void get Info() {

system. out. phintln ("person exists!");

noverload

public void get Info (string manne);

system. out. print In ("person" + name);

some class. Some vame. different asgument.

Olynamic polymorphism: override.

public class people extends person {
 //override.
 public void get Intor) {
 System. out. print In ("people here")
 }
}

in Subclass. Some signature.

```
#8. Public class Singleton }
                                                    " Static variable single-instance of singleton type
             private static Singleton obj;
                                                    11 private constructor
             private Singleton () { };
                                                              11 static got Instance () method
             public static synchronized get Instance () {
                                                               11 synchronized.
                   if (0bj == mill) {
                        obj = new Single ton ();
                  return &bj;
              @ override
                                                                              11 clone overvide.
              public Object clone () throws clone Not Support Exception ()
                     throw Clow Not Support Exception;
         Public abstract class Foxcomn {
               public abstract make phone 1) { };
         public class Iphone extends Forecomms
            11 make Iphone
          public class thanei extends Foxcomn &
              1 make Huaniei
          11 factory class
               public static Foxconn make Phone (String brand) {
          public class phone Factory?
                     if ("Iphone". equals (brand)) {
                         beturn new Iphone ();
                      it ("thrawei". equals (brand))}
                           return new Huavei())
                                                                    ingert = O(n), read: O(n)
         Arraylist: based on array. It is not throad safe.
                                                                                       index ?
#10
                       they a it is doubly linked list. then it is two way.
-0.25
         Linked List:
                                             insert (O(1)) read: O(n)
                      it is thread safe.
                             not thread safe
```

```
hash coole() and equals().
                   overviole
           are many buckets. use hash code () to different from them and store data
                      Hashmap use key-value pair.
   different buckets.
     we can't use for loop. But we can use Herator.
#14.
       Shocked
       They are two types of exception
                                                       SQLEXception.
       specked exception is compile time
                                               . We we try catch finally to achieve
       For example:
                                                . For example: null pointer exception.
       unchecked exception is mutime.
        a extends Thread
# 15.
        (2) implements Runnable.
        Executor Server helps to maintain throad pool.
# 16.
        Executor Service excutor = Froquetor. new CacheetThread Pool();
         LIVE INVOKE AH() to start all the threads. Neturn a future type, use shutdown() to shut
       public class Usstartes.
            public static void main (stringt) angs) {
                  List < States > States = Arrays. aslist (
                          new States ("New York"),
                          new Startes ("New Jersey"),
                          new States ("Virginia")
                 States result = states. stream ()
                        - filter((s) → "N". equals (s. getName) [0]
                         . find Any ()
                         · or thee (null);
                system. out. printlin ("result: " + result);
```

```
#18. Functional Interface has one single abstract method. It has an annotation & functional Interfa
                               SUM (salary) as Totalsalary
 # 19. Select Department, Total Salary from Employee.
       group by pepartment
   howing and Totalsalary > 2000 order by Department desc.
                                                         3) field: it is a constant.
      Final -> com't be overrided, am't be extended
       Finally -> top, catch, finally. it will definitully be excurted.
       Finalize -> garbage collections.
      git rebous : change the master branch to a feature branch No need commit.
 -0.5 get morge: merge a feature branch to the master branch need commit.
# 22.
 FrontEnd -> Security -> controller -> Service -> DAO -> Patabase.
      public String reverseString (String 5) {
            chart chars = stock S. tochar Array();
             int 7=0 ;
             int j = S. (emoth() -1;
              while (i < j) {
                 Char trup = Charstilli
                  charstil = charstj];
                 chars [j] = tmp;
              return new String (chars);
```