

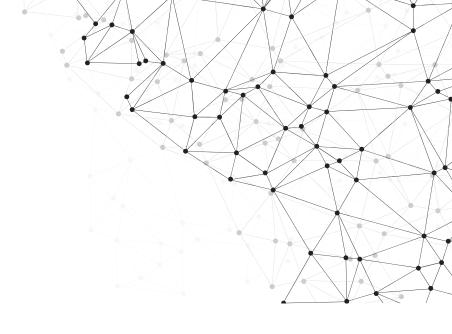
2021 Spring Java Final Review

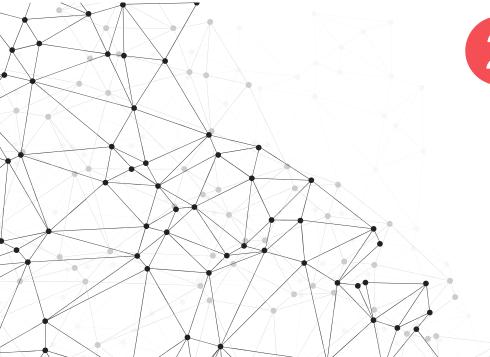
Produced by 聂秋实

This lesson is designed to help you to pass the exam, but this course isn't.

Contents

1 知识点梳理



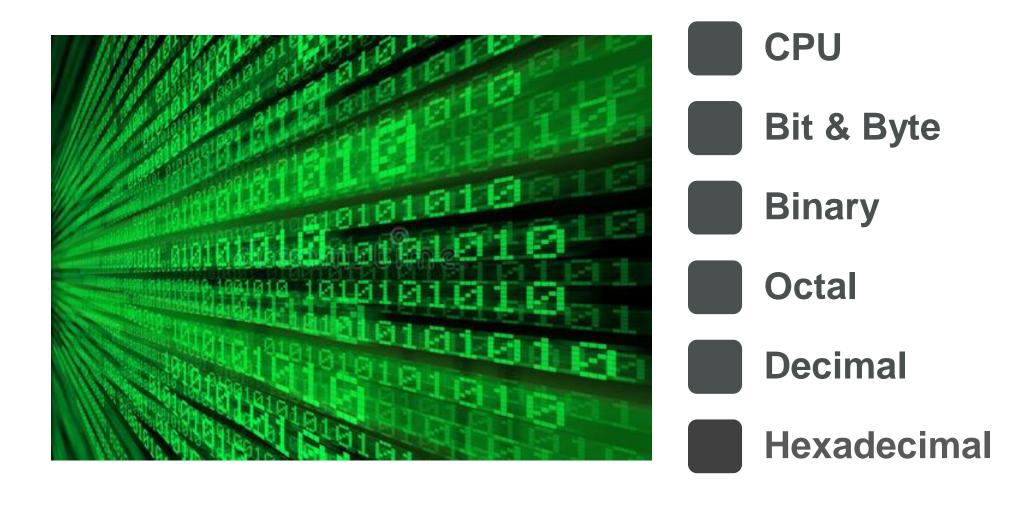


2 往年题型讲评分析

3 答疑.....



1 计算机基础知识



2 第一个Java程序



给阿姨倒杯卡布奇诺

- Hello World!
- JDK & JRE & JVM & IDE
- Reserved word & keyword
- Main method
- Comment // /* */
- Block { } semi-colon;

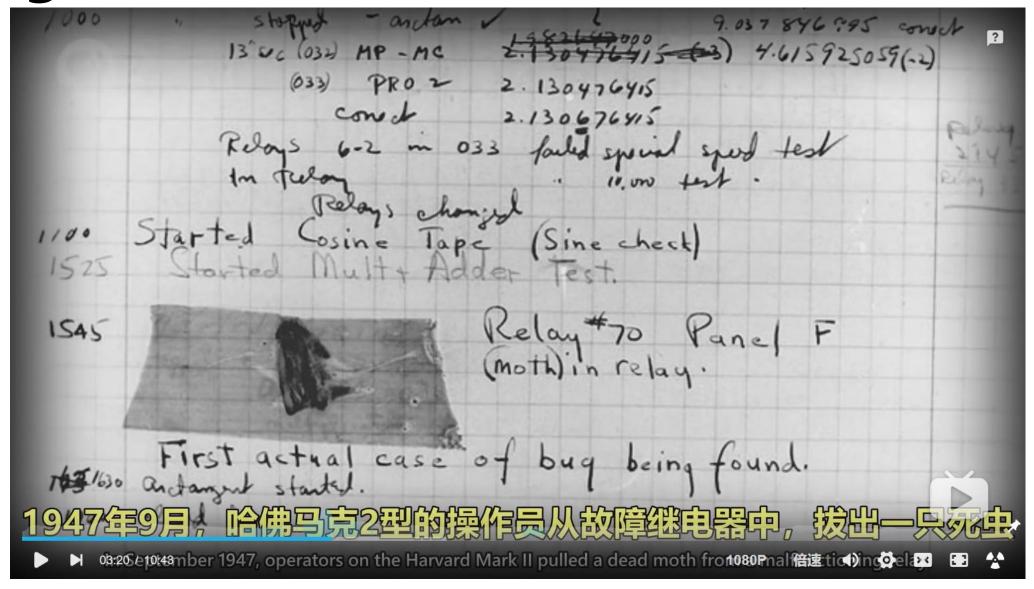
Bug的由来

图片来自b站视频截图: Crash Course Computer Science



Bug的由来

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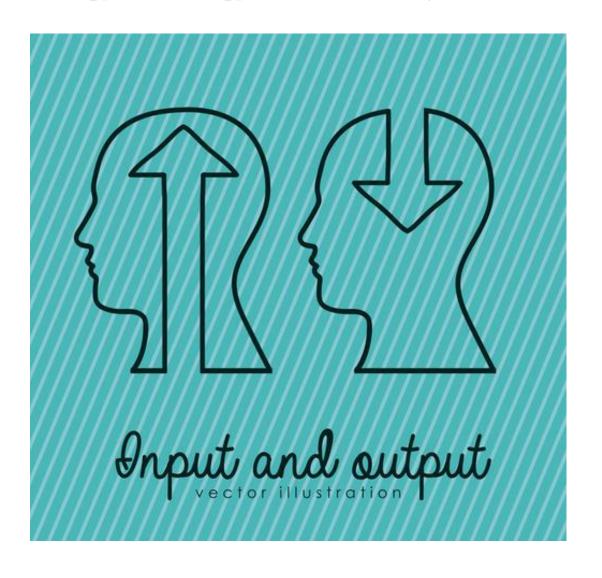


Who is the first programmer in the history?



Ada Lovelace

3 输入输出标识符



- **Arguments & Scanner**
- in.next() and in.nextLine()
- System.out.println()
- print() & printf("%?", ??)
- %b %c %d %f %s
- Identifiers

4 八种基本数据类型

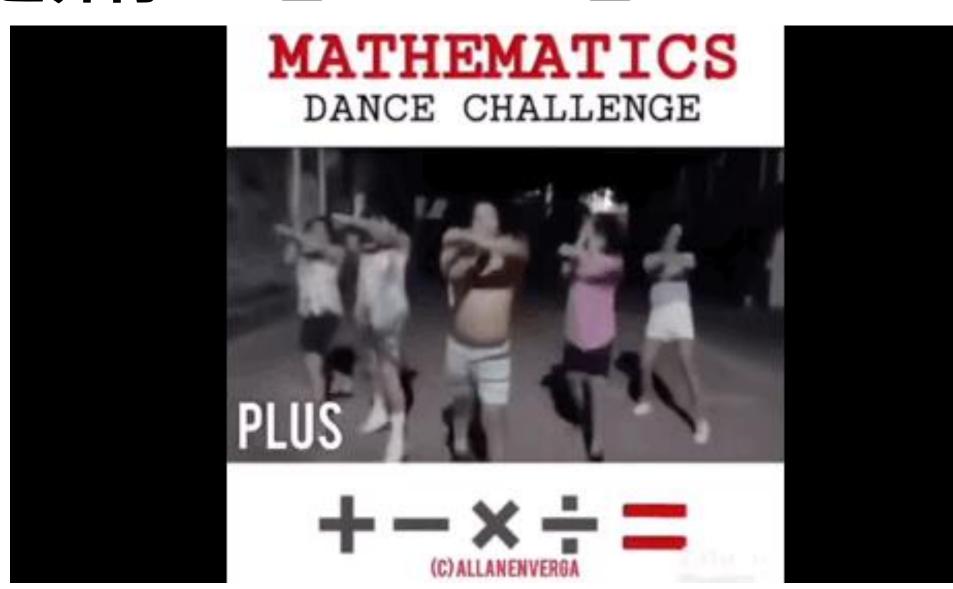


- byte short int long
- float double
- boolean
- char
- ASCII & Unicode
- \t \n \r \\ \" \uxxxx

5 运算符



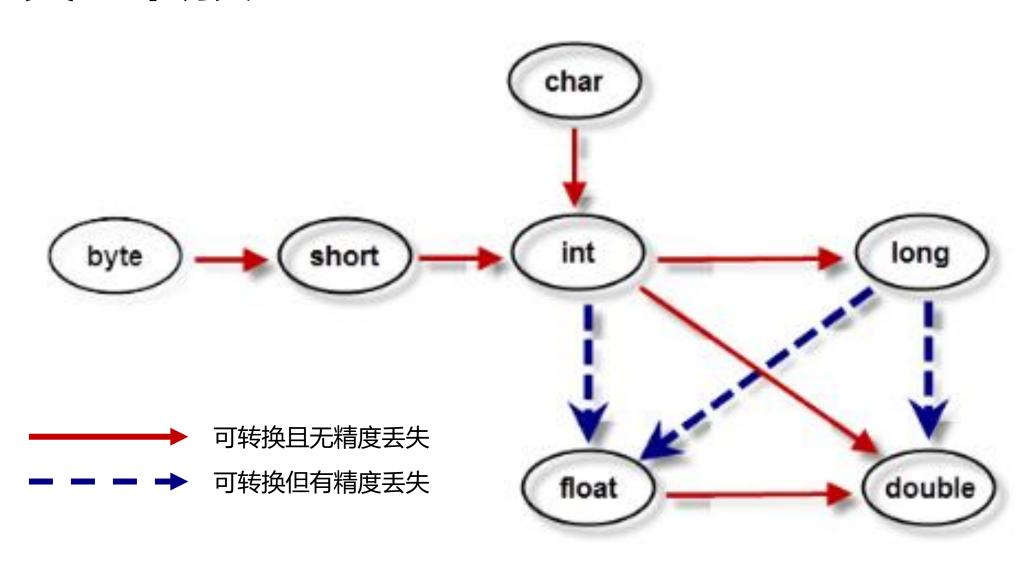




6 类型转换





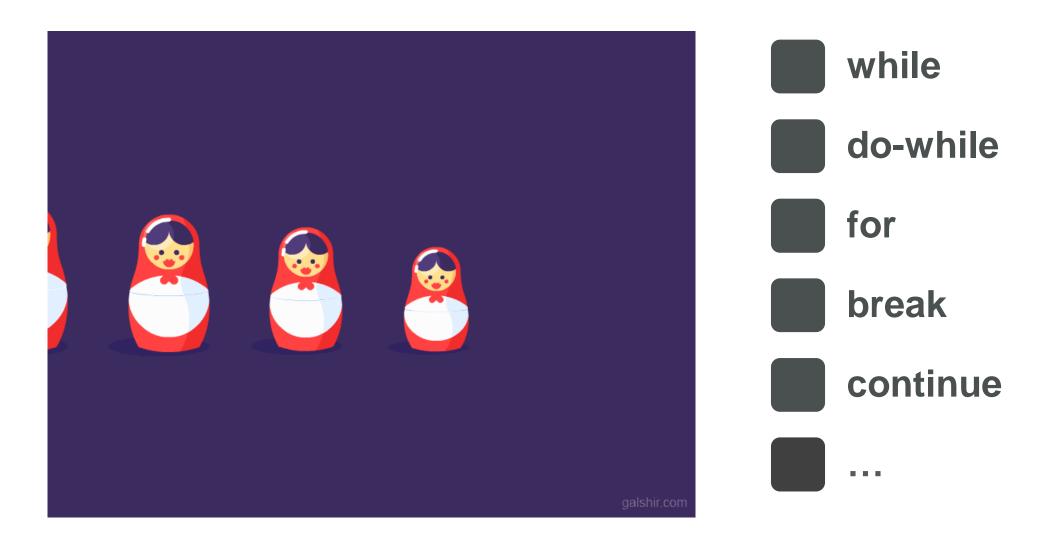


7 判断



- if-else
- switch-case(break)
- Logical operator & !^
- Condition expression ?:
- ...
- ...

8 循环



9静态方法

- How to declare a method
- How to invoke a method
- Pass by reference (Q1-2-5)
 - Method overloading

Pass by value

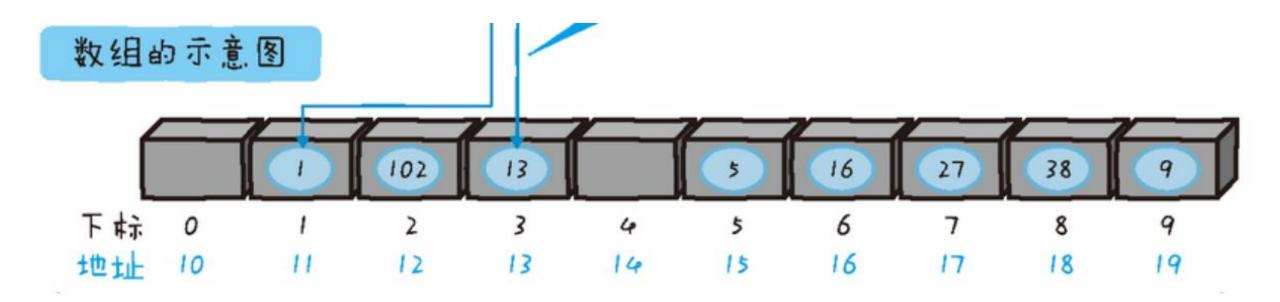
Method-call Stack

```
public static int max(int a, int b) {
   if(a > b) return a;
   else return b;
}
```

10 数组

- Declare create access
- length
- **Default value**

- foreach
- Variable-length arguments
- Search & Sort
- Multi-dimensional arrays



11 类和对象

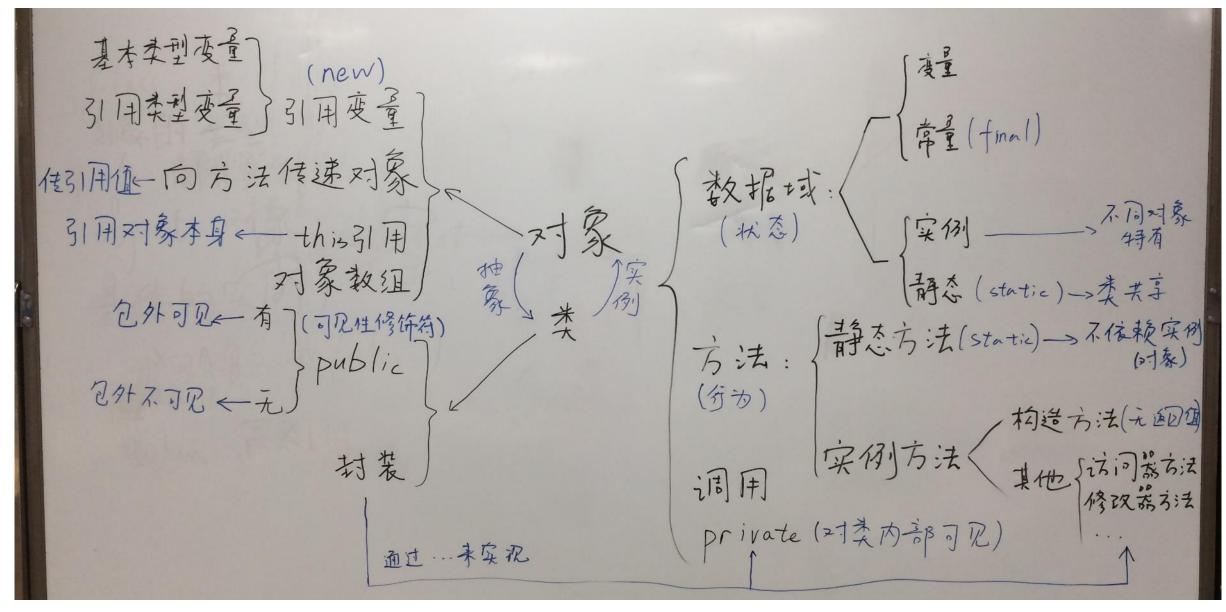
Girlfriend gf = new Girlfriend(); 我可是有对象的人了

- Data field & methods
- Constructors
- How to create an object
- Access method & Data Field
- this
- Encapsulation
- Enum

11 枚举类

public enum Heart { YOU } **Private constructors** .name() .ordinal() .values() My Heart, only YOU

11 类和对象

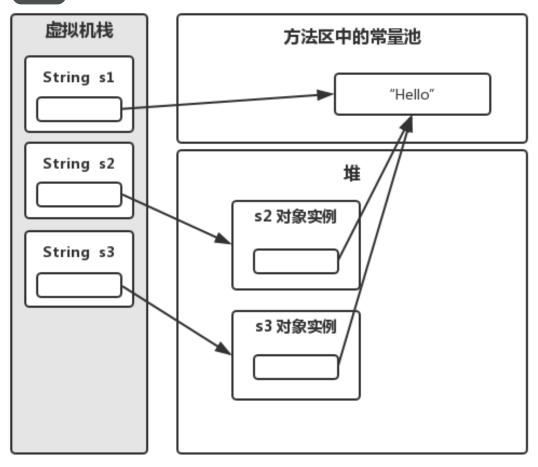


12 String类和其他

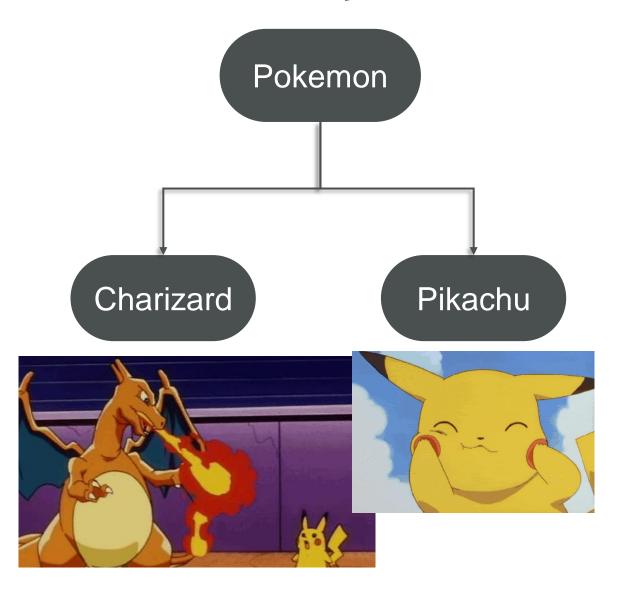
- Constructors
- Methods dealing with String
- **Constant Pool**

```
String s1 = "Hello";
String s2 = new String("Hello");
String s3 = new String("Hello");
System.out.println( s1 == s2 );
System.out.println( s2 == s3 );
```

- StringBuilder
- ArrayList<E>
- Wrapper Classes

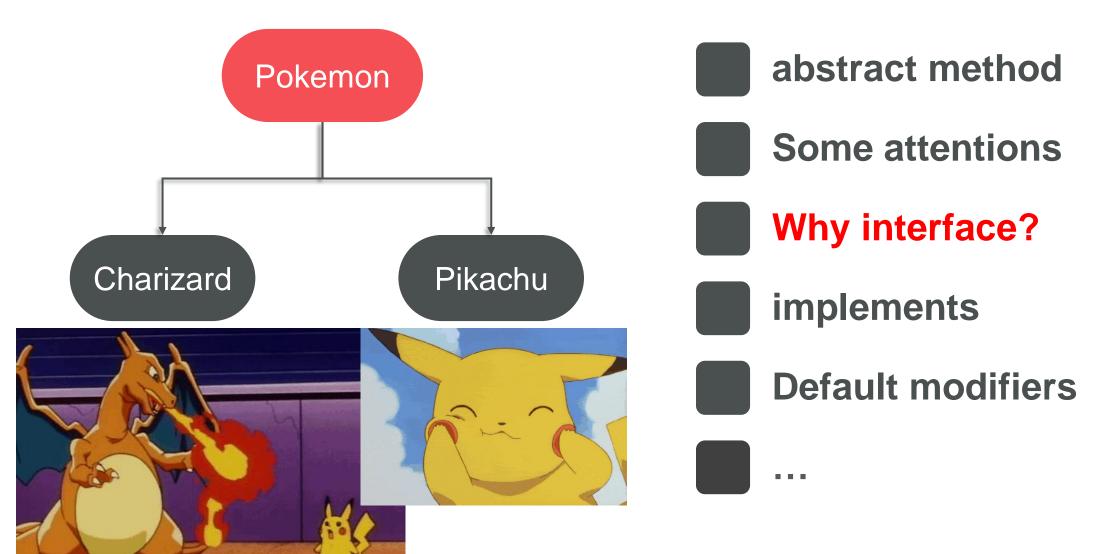


13 继承和多态



- Constructor Chaining(18Fall)
- super
- **Access Modifiers**
- **Method Overriding**
- Object
- **Dynamic binding**
- instanceof
- final class and method

14 抽象类和接口



15 泛型



我竟无图以对

- **Generic Method**
- **Generic Class**
- **Generic Interface**
- **Bounded Type Parameter**
- Wildcards
- Type Erasure
- ...

16 异常处理



并向你抛出了一个异常

(C) Type /FontDescriptor /Locat 730 /CapHeight 660 /Descent -270 /Flags 35 /FontDox [-177 -258 1123 255] /FontDox ale 0 /Stead 105 >> endobj 3 0 obj (C (Type /Enhances (128 /Euro) >> endobj 4 0 obj (C (Destype)) ET /9002 10.00 Tf 0 g EF 502:35 793.70 Td 0 Tw <588552175397713 ET 0 g 57 59:25 793.70 Td 0 Tw



对方解决了你的异常 并向你抛出了一串乱码

try-catch

throws

Exception and Error

finally

Create Exception class

Methods for Exception



题型内容



05 手写代码题

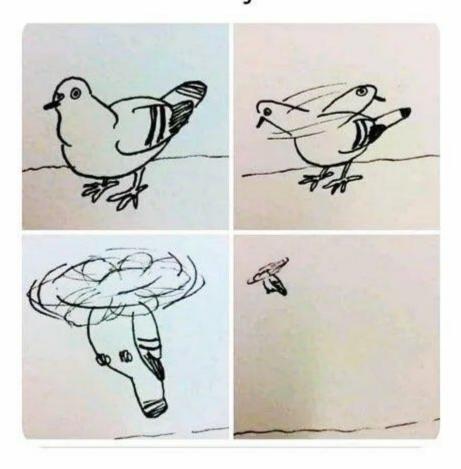




8 动画

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When your program is a complete mess, but it does its job







部分图源来自CSDN / 博客园 / 百度图片/哔哩哔哩

Thanks for listening!