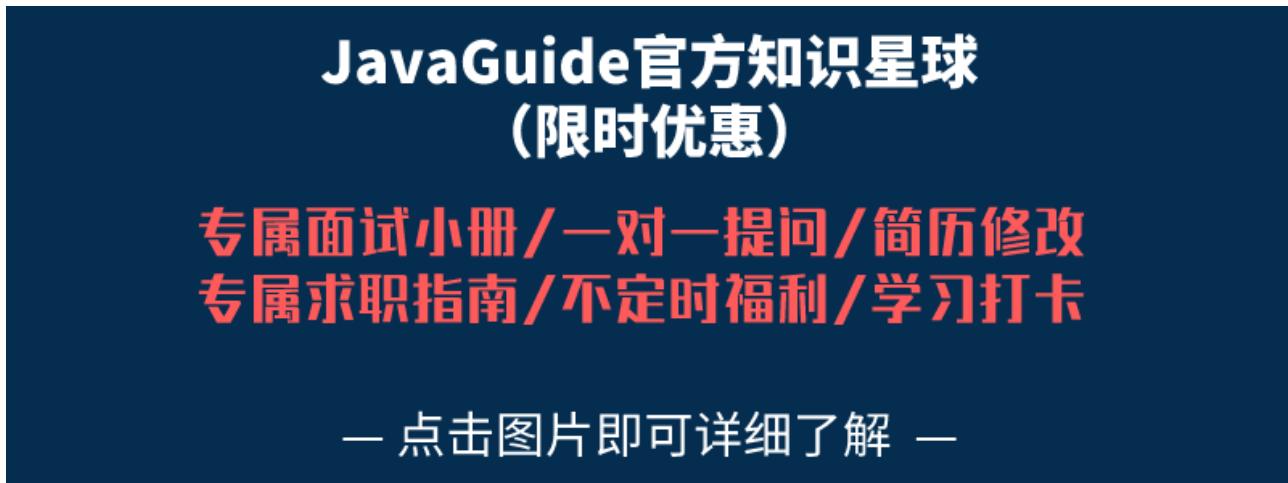


Summary of Common Java Basics Interview Questions (Part 2)

Guide Java Java Basics About 9962 words About 33 minutes



Object-oriented basics

★ The difference between object-oriented and process-oriented

Procedural-Oriented Programming (POP) and Object-Oriented Programming (OOP) are two common programming paradigms. The main difference between the two lies in the different ways they solve problems:

- **Procedure-oriented programming (POP)** : Procedure-oriented programming breaks down the problem-solving process into individual methods and solves the problem by executing each method.
- **Object-oriented programming (OOP)** : Object-oriented programming first abstracts objects and then uses objects to execute methods to solve problems.

Compared with POP, programs developed using OOP generally have the following advantages:

- **Easy to maintain** : OOP programs are usually easier to maintain due to good structure and encapsulation.
- **Easy to reuse** : Through inheritance and polymorphism, OOP design makes the code more reusable and facilitates the expansion of functions.

- **Easy to expand** : Modular design makes system expansion easier and more flexible.

POP programming is generally simpler and more direct, suitable for handling some simpler tasks.

The performance difference between POP and OOP depends mainly on their operating mechanisms, not just the programming paradigm itself. Therefore, simply comparing the performance of the two is a common misunderstanding (related issue: [Process-oriented: Is process-oriented performance higher than object-oriented??](#)).

面向过程：面向过程性能比面向对象高。因为类调用时需要实例化，开销比较大，比较消耗资源，所以当性能是最重要的考量因素的时候，比如单片机、嵌入式开发、Linux/Unix等一般采用面向过程开发。

----»»

这个并不是根本原因，面向过程也需要分配内存，计算内存偏移量，Java性能差的主要原因并不是因为它是面向对象语言，而是Java是半编译语言，最终的执行代码并不是可以直接被CPU执行的二进制机械码。

而面向过程语言大多都是直接编译成机械码在电脑上执行，并且其它一些面向过程的脚本语言性能也并不一定比Java好。



284

33

24

18

23

36

34

Performance is not the only consideration when choosing a programming paradigm. Code maintainability, scalability, and development efficiency are equally important.

Modern programming languages basically support multiple programming paradigms and can be used for both procedural programming and object-oriented programming.

The following is an example of finding the area and circumference of a circle, which briefly shows two different solutions: object-oriented and process-oriented.

Object-oriented :

```

1  public class Circle {
                java
2      //
3      private double radius;
4
5      //
6      public Circle(double radius) {
7          this.radius = radius;
8      }
9

```



```

10    //
11    public double getArea() {
12        return Math.PI * radius * radius;
13    }
14
15    //
16    public double getPerimeter() {
17        return 2 * Math.PI * radius;
18    }
19
20    public static void main(String[] args) {
21        //           3
22        Circle circle = new Circle(3.0);
23
24        //
25        System.out.println("      " + circle.getArea());
26        System.out.println("      " + circle.getPerimeter());
27    }
28}

```

We define a `Circle` class to represent a circle, which contains the `radius` property of the circle and methods for calculating the area and circumference.

Process-oriented :

```

1  public class Main {                                     java
2      public static void main(String[] args) {
3          //
4          double radius = 3.0;
5
6          //
7          double area = Math.PI * radius * radius;
8          double perimeter = 2 * Math.PI * radius;
9
10         //
11         System.out.println("      " + area);
12         System.out.println("      " + perimeter);
13     }
14

```



We directly define the radius of the circle and use this radius to directly calculate the area and circumference of the circle.

What operator is used to create an object? What is the difference between an object entity and an object reference?

The new operator creates an object instance (the object instance is in the heap memory), and the object reference points to the object instance (the object reference is stored in the stack memory).

- An object reference can point to 0 or 1 objects (a string can have no balloon tied to it or one balloon tied to it);
- An object can have n references pointing to it (a balloon can be tied with n strings).

★ The difference between object equality and reference equality

- Object equality generally compares whether the contents stored in memory are equal.
- Reference equality generally compares whether the memory addresses they point to are equal.

Here is an example:

```

1  String str1 = "hello";
2  String str2 = new String("hello");
3  String str3 = "hello";
4  // ==
5  System.out.println(str1 == str2);
6  System.out.println(str1 == str3);
7  // equals
8  System.out.println(str1.equals(str2));
9  System.out.println(str1.equals(str3));

```

java

Output:

```

1  false
2  true
3  true
4  true

```

plain


From the output of the above code, we can see that:

- `str1` and `str2` are not equal, but `str1` and `str3` are equal. This is because `==` the operator compares string references for equality.
- `str1` The contents of, `str2`, `str3` and are all equal. This is because `equals` the method compares the contents of the strings. Even if the object references of these strings are different, as long as their contents are equal, they are considered equal.

If a class does not declare a constructor, will the program execute correctly?

The constructor is a special method whose main function is to complete the initialization of the object.

Even if a class doesn't declare a constructor, it can still be executed! This is because a class will have a default constructor with no parameters even if it doesn't declare a constructor. If we add a constructor to the class ourselves (regardless of whether it has parameters or not), Java will not add a default constructor with no parameters.

We use constructors all the time without realizing it, which is why we add parentheses after creating an object (because we are calling the no-argument constructor). If we overload a constructor with parameters, remember to also write out the no-argument constructor (whether we use it or not), because this can help us avoid pitfalls when creating objects.

What are the characteristics of the constructor? Can it be overridden?

The construction method has the following characteristics:

- **The name is the same as the class name :** The name of the constructor must be exactly the same as the class name.
- **No return value :** Constructors have no return type and cannot be `void` declared using .
- **Automatic execution :** When an object of a class is generated, the constructor is automatically executed without explicit call.

Constructors **cannot be overridden**, but they **can be overloaded**. Therefore, a class can have multiple constructors with different parameter lists to provide different object initialization methods.

★Three major characteristics of object-oriented

Encapsulation

Encapsulation means hiding an object's state information (i.e., properties) within the object, preventing external objects from directly accessing the object's internal information. However, methods that can be accessed from the outside world can be provided to manipulate the properties. This is like how we can't see the internal components (i.e., properties) of an air conditioner hanging on the wall, but can control it using a remote control (methods). If the properties are not to be accessed by the outside world, there is no need to provide methods for them to access. However, if a class does not provide methods for external access, then the class is meaningless. This is like how if there is no air conditioner remote control, then we cannot control the air conditioning, and the air conditioning itself is meaningless (of course, there are many other methods, but this is just an example).

```
1  public class Student {                                     java
2      private int id;//id
3      private String name;//name
4
5      //    id
6      public int getId() {
7          return id;
8      }
9
10     //    id
11     public void setId(int id) {
12         this.id = id;
13     }
14
15     //    name
16     public String getName() {
17         return name;
18     }
19
20
21
22
23
```



```
24 //      name  
public void setName(String name) {  
    this.name = name;  
}  
}
```

inherit

3

1.

2.

3.

:

- /
-
- " "
-



```
1 public interface MyInterface {  
2     default void defaultMethod() {  
3         System.out.println("This is a default method.");  
4     }  
5 }
```

java

```
Java 8          static
    MyInterface.staticMethod()                      static
```



```
1 public interface MyInterface {  
2     static void staticMethod() {  
3         System.out.println("This is a static method in the  
4             interface.");  
5     }  
6 }
```

java

Java 9 private private

```
1 public interface MyInterface {  
2     // default  
3     default void defaultMethod() {  
4         commonMethod();  
5     }  
6  
7     // static  
8     static void staticMethod() {  
9         commonMethod();  
10    }  
11  
12    //           static   default  
13    private static void commonMethod() {  
14        System.out.println("This is a private method used  
15            internally.");  
16    }  
17  
18    //           default  
19    private void instanceCommonMethod() {  
20        System.out.println("This is a private instance method used  
21            internally.");  
22    }  
23 }
```

java



•

Cloneable clone()

clone() Object clone()

```
1  public class Address implements Cloneable{                              java
2      private String name;
3      //                      Getter&Setter
4      @Override
5      public Address clone() {
6          try {
7              return (Address) super.clone();
8          } catch (CloneNotSupportedException e) {
9              throw new AssertionError();
10         }
11     }
12 }

13 public class Person implements Cloneable {
14     private Address address;
15     //                      Getter&Setter
16     @Override
17     public Person clone() {
18         try {
19             Person person = (Person) super.clone();
20             return person;
21         } catch (CloneNotSupportedException e) {
22             throw new AssertionError();
23         }
24     }
25 }
26 }
```



```

1 Person person1 = new Person(new Address("  "));
2 Person person1Copy = person1.clone();
3 // true
4 System.out.println(person1.getAddress() ==
person1Copy.getAddress());

```

java

person1 person1
Address

Person clone() Person

Address

```

1 @Override
2 public Person clone() {
3     try {
4         Person person = (Person) super.clone();
5         person.setAddress(person.getAddress().clone());
6         return person;
7     } catch (CloneNotSupportedException e) {
8         throw new AssertionError();
9     }
10 }

```

java

```

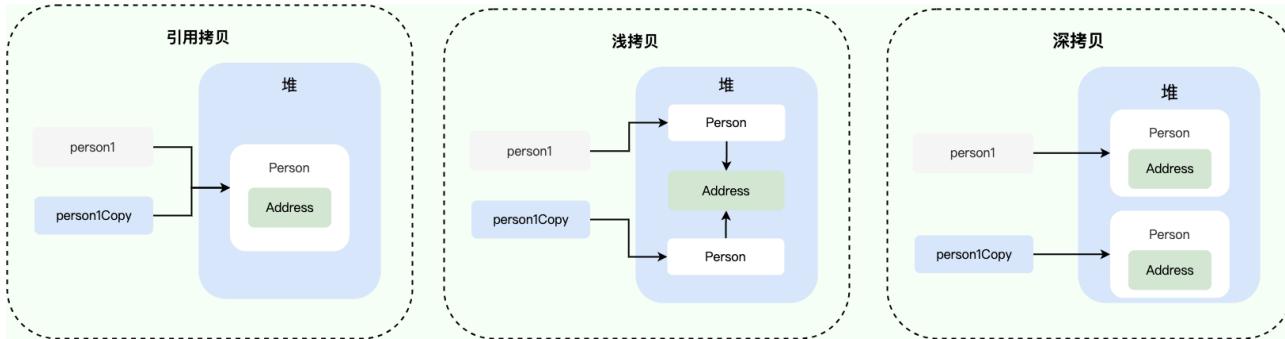
1 Person person1 = new Person(new Address("  "));
2 Person person1Copy = person1.clone();
3 // false
4 System.out.println(person1.getAddress() ==
person1Copy.getAddress());

```

java

person1 person1 Address





★ Object

Object

11

```

1  /**
2   * native
3
4   */
5  public final native Class<?> getClass()
6
7  /**
8   * native
9   * HashMap
10  */
11 public native int hashCode()
12
13 /**
14 */
15 public boolean equals(Object obj)
16
17 /**
18  * native
19  */
20 protected native Object clone() throws CloneNotSupportedException
21
22 /**
23 */
24 public String toString()
25
26 /**
27 */

```



```

27      )
28  */
29 public final native void notify()
30 /**
31  * native          notify
32
33 */
34 public final native void notifyAll()
35 /**
36  * native          sleep
37 wait           timeout
38 */
39 public final native void wait(long timeout) throws
40 InterruptedException
41 /**
42  *      nanos        0-999999
43                      nanos
44 */
45 public final void wait(long timeout, int nanos) throws
46 InterruptedException
47 /**
48  *      2  wait
49 */
50 public final void wait() throws InterruptedException
51 /**
52  *
53 */
54 protected void finalize() throws Throwable { }

```

== equals()

==

- ==
- ==

Java ==

equals()
equals() **Object** **Object**
equals()



Object equals()

```
1     public boolean equals(Object obj) {  
2         return (this == obj);  
3     }
```

java

equals()

- **equals()** **equals()**
 - “**==**” **Object.equals()**
 - **equals()** **equals()**
 - **true(**

IDEA

IDE == equals()

```
1 String a = new String("ab"); // a
2 String b = new String("ab"); // b
3 String aa = "ab"; //
4 String bb = "ab"; //
5 System.out.println(aa == bb); // true
6 System.out.println(a == b); // false
7 System.out.println(a.equals(b)); // true
8 System.out.println(42 == 42.0); // true
```

java

`String.equals` `Object.equals`

String equals

String

String

`String.equals()`

```
1 public boolean equals(Object anObject) {  
2     if (this == anObject) {  
3         return true;  
4     }  
5     if (anObject instanceof String) {  
6         String anotherString = (String)anObject;  
7         int n = value.length;  
8         if (n == anotherString.value.length) {
```



```
9         char v1[] = value;
10        char v2[] = anotherString.value;
11        int i = 0;
12        while (n-- != 0) {
13            if (v1[i] != v2[i])
14                return false;
15            i++;
16        }
17        return true;
18    }
19 }
20 return false;
21 }
```

hashCode()

hashCode() int



hashCode()	JDK	Object	Java
hashCode()		Object	hashCode()
	C	C++	

! Oracle OpenJDK8 Marsaglia's xor-shift ", " " " ", JDK/VM
Oracle OpenJDK8 (),
VM : XX hashCode - 4

- <https://hg.openjdk.org/jdk8u/jdk8u/hotspot/file/87ee5ee27509/src/share/vm/runtime/globals.hpp> 1127
 - <https://hg.openjdk.org/jdk8u/jdk8u/hotspot/file/87ee5ee27509/src/share/vm/runtime/synchronizer.cpp> 537

```
1     public native int hashCode();
```



(key-value)

hashCode

“ HashSet ” hashCode

Java Head First Java :

HashSet HashSet hashCode

hashCode

hashCode HashSet hashCode
equals() hashCode
HashSet equals

hashCode() equals()

JDK

HashMap HashSet hashCode()

HashSet

HashSet HashSet

equals()

hashCode hashCode

hashCode()

hashCode

hashCode

hashCode()

hashCode)

- hashCode
- hashCode equals() true
- hashCode



hashCode() equals()

equals()

hashCode

hashCode

equals()

hashCode()

hashCode

equals()

hashCode()

equals

equals

HashMap

- equals

hashCode

- hashCode

hashCode() equals()

Java hashCode() equals()

String

★ String StringBuffer StringBuilder

String

StringBuilder StringBuffer

AbstractStringBuilder

AbstractStringBuilder

final

private

AbstractStringBuilder

append

```

1 abstract class AbstractStringBuilder implements Appendable,
2   CharSequence {
3     char[] value;
4     public AbstractStringBuilder append(String str) {
5       if (str == null)
6         return appendNull();

```



```

7     int len = str.length();
8     ensureCapacityInternal(count + len);
9     str.getChars(0, len, value, count);
10    count += len;
11    return this;
12 }
13 //...
}

```

String
AbstractStringBuilder StringBuilder StringBuffer
expandCapacity append insert indexOf
StringBuffer
StringBuilder

String String StringBuffer 10%~15%	String StringBuffer StringBuilder
--	--

- : String
- : StringBuilder
- : StringBuffer

★String ?

String final ————— **String** —————

```

1 public final class String implements java.io.Serializable,           java
2   Comparable<String>, CharSequence {
3     private final char value[];
4     //...
5   }

```



final
final String
final String
String
1. final String /
2. String final String

String	-
<u>issue 675</u>	Java 9
String	StringBuilder
StringBuffer	byte

```
1 public final class String implements
2     java.io.Serializable, Comparable<String>, CharSequence {
3     // @Stable
4     @Stable
5     private final byte[] value;
6 }
7
8 abstract class AbstractStringBuilder implements Appendable,
9 CharSequence {
10     byte[] value;
11 }
```

Java 9	String	char[]	byte[] ?
String		Latin-1	UTF-16
Latin-1			Latin-1
byte	(8)	char	2 16 byte char

JDK Latin-1

Motivation

The current implementation of the String class stores characters in a char array, using two bytes (sixteen bits) for each character. Data gathered from many different applications indicates that strings are a major component of heap usage and, moreover **that most String objects contain only Latin-1 characters.** Such characters require only one byte of storage, hence half of the space in the internal char arrays of such String objects is going unused.



Latin-1

byte char

<https://openjdk.java.net/jeps/254>



“+”

StringBuilder?

Java

“+” “+=”

String

```
1     String str1 = "he";
2     String str2 = "llo";
3     String str3 = "world";
4     String str4 = str1 + str2 + str3;
```

java

```
1 0 ldc #2 <he>
2 2 astore_1
3 3 ldc #3 <llo>
4 5 astore_2
5 6 ldc #4 <world>
6 8 astore_3
7 9 new #5 <java/lang/StringBuilder>
8 12 dup
9 13 invokespecial #6 <java/lang/StringBuilder.<init> : ()V>
10 16 aload_1
11 17 invokevirtual #7 <java/lang/StringBuilder.append : (Ljava/lang/String;)Ljava/lang/StringBuilder;>
12 20 aload_2
13 21 invokevirtual #7 <java/lang/StringBuilder.append : (Ljava/lang/String;)Ljava/lang/StringBuilder;>
14 24 aload_3
15 25 invokevirtual #7 <java/lang/StringBuilder.append : (Ljava/lang/String;)Ljava/lang/StringBuilder;>
16 28 invokevirtual #8 <java/lang/StringBuilder.toString : ()Ljava/lang/String;>
17 31 astore_4
18 33 return
```

创建 StringBuilder
调用 StringBuilder 的 append 方法
调用 StringBuilder 的 toString 方法

“+”

StringBuilder

append()

toString()

String

“+”

StringBuilder

StringBuilder

```
1 String[] arr = {"he", "llo", "world"};
2 String s = "";
3 for (int i = 0; i < arr.length; i++) {
4     s += arr[i];
5 }
6 System.out.println(s);
```

java

StringBuilder
StringBuilder

```

20 20 aload_0
21 26 arraylength
22 27 istore 4
23 29 iconst_0
24 30 istore 5
25 32 iload 5
26 34 iload 4
27 36 if_icmpge 71 (+35)
28 39 aload_3
29 40 iload 5
30 42 aaload
31 43 astore 6
32 45 new #7 <java/lang/StringBuilder>
33 48 dup
34 49 invokespecial #8 <java/lang/StringBuilder.<init> : ()V>
35 52 aload_2
36 53 invokevirtual #9 <java/lang/StringBuilder.append : (Ljava/lang/String;)Ljava/lang/StringBuilder;>
37 56 aload_6
38 58 invokevirtual #9 <java/lang/StringBuilder.append : (Ljava/lang/String;)Ljava/lang/StringBuilder;>
39 61 invokevirtual #10 <java/lang/StringBuilder.toString : ()Ljava/lang/String;>
40 64 astore_2
41 65 iinc 5 by 1
42 68 goto 32 (-36)
43 71 getstatic #11 <java/lang/System.out : Ljava/io/PrintStream;>
44 74 aload_2
45 75 invokevirtual #12 <java/io/PrintStream.println : (Ljava/lang/String;)V>
46 78 return

```



循环内部创建 StringBuilder 对象

StringBuilder

```

1 String[] arr = {"he", "llo", "world"};
2 StringBuilder s = new StringBuilder();
3 for (String value : arr) {
4     s.append(value);
5 }
6 System.out.println(s);

```

java



```

16 20 new #6 <java/lang/StringBuilder>
17 23 dup
18 24 invokespecial #7 <java/lang/StringBuilder.<init> : ()V>
19 27 astore_2
20 28 aload_1
21 29 astore_3
22 30 aload_3
23 31 arraylength
24 32 istore 4
25 34 iconst_0
26 35 istore 5
27 37 iload 5
28 39 iload 4
29 41 if_icmpge 63 (+22)
30 44 aload_3
31 45 iload 5
32 47 aaload
33 48 astore 6
34 50 aload_2
35 51 aload 6
36 53 invokevirtual #8 <java/lang/StringBuilder.append : (Ljava/lang/String;)Ljava/lang/StringBuilder;>
37 56 pop
38 57 iinc 5 by 1
39 60 goto 37 (-23)

```

IDEA IDEA

JDK 9 “+” makeConcatWithConstants()

a+b+c
append
StringBuilderJDK9 JEP 280
StringBuilder issue#2442

String#equals() Object#equals()

String equals String
Object equals

JVM String

```

1 // "ab"
2 // "ab" aa
3 String aa = "ab";
4 // "ab" bb
5 String bb = "ab";

```

java



```
5 System.out.println(aa==bb); // true
6
```

Java**★String s1 = new String("abc");**

1 2

1.	"abc"	2	new String()
	ldc		"abc"
2.	"abc"	1	new
	String()	"abc"	

1	“abc”	"abc"
	"abc"	"abc"

JDK 1.8

```
1 String s1 = new String("abc");
```

```

1 // String java
2 // #2 java/lang/String
3 //
4 java/lang/String
5 0 new #2 <java/lang/String>
6 // String
7 //
8
9 3 dup
10 // JVM "abc"
11 // "abc"
12 // "abc" JVM
13 //
14 4 ldc #3 <abc>
15 //
16 // "abc" String

```



```

17 //      String          "abc"
18
19 6 invokespecial #4 <java/lang/String.<init> :
(Ljava/lang/String;)V>
//      String
9 astore_1
//
10 return

```

ldc (load constant)

ldc

1. ldc

2. ldc

3.

JVM

2 "abc" 1
"abc"

JDK 1.8

```

1 //          "abc"          java
2 String s1 = "abc";
3 //          1          "abc"
4 String s2 = new String("abc");

```

```

1 0 ldc #2 <abc>          java
2 2 astore_1
3 3 new #3 <java/lang/String>
4 6 dup
5 7 ldc #2 <abc>
6 9 invokespecial #4 <java/lang/String.<init> :
(Ljava/lang/String;)V>
7 12 astore_2
8 13 return

```





String#intern ?

`String.intern()` native ()

1.

`intern()` `String` `intern()`

2.

`intern()` `intern()`

- `intern()`
- `intern()`

JDK 1.8 :

```

1 // s1           "Java"
2 String s1 = "Java";
3 // s2           "Java"      s1
4 String s2 = s1.intern();
5 //           "Java"      s3
6 String s3 = new String("Java");
7 // s4           "Java"      s1
8 String s4 = s3.intern();
9 // s1  s2
10 System.out.println(s1 == s2); // true
11 // s3  s4
12 System.out.println(s3 == s4); // false
13 // s1  s4
14 System.out.println(s1 == s4); // true
  
```



String

“+”

final

JDK1.8

```

1 String str1 = "str";
2 String str2 = "ing";
3 String str3 = "str" + "ing";
4 String str4 = str1 + str2;
5 String str5 = "string";
6 System.out.println(str3 == str4); //false
7 System.out.println(str3 == str5); //true
8 System.out.println(str4 == str5); //false

```

java

String	equals()	String
equals	Object	equals
String	equals	==
	IDEA	equals()

The screenshot shows a code editor with Java code. The code demonstrates string concatenation and equality checks:

```

String str1 = "str";
String str2 = "ing";

String str3 = "str" + "ing"; //常量池中的对象
String str4 = str1 + str2; //在堆上创建的新的对象
String str5 = "string"; //常量池中的对象
System.out.println(str3 == str4); //false
System.out.println(str3 == str5);
System.out.println(str4 == str5);
}

```

A red box highlights the line `System.out.println(str3 == str4); //false`. A tooltip appears over the equals operator in the line, suggesting two alternatives:

- Replace '==' with 'equals()'
- Replace '==' with null-safe 'equals()'

jvm

Java
stant Folding

Java

(Con-



- ✓ 第四部分 程序编译与代码优化
 - ✓ 第10章 前端编译与优化
 - 10.1 概述
 - ✓ 10.2 Javac 编译器
 - 10.2.1 Javac 的源码与调试
 - 10.2.2 解析与填充符号表
 - 10.2.3 注解处理器
 - 10.2.4 语义分析与字节码生成
 - > 10.3 Java 语法糖的味道
 - > 10.4 实战：插入式注解处理器
 - 10.5 本章小结
- > 第11章 后端编译与优化
- > 第五部分 高效并发

```
int d = a + c;  
int d = b + c;  
char d = a + c;
```

后续代码中如果出现了如上3种赋值运算的话，那它们都能构成结构正确的抽象语法树，但是只有第一种的写法在语义上是没有错误的，能够通过检查和编译。其余两种在Java语言中是不合逻辑的，无法编译（是否合乎语义逻辑必须限定在具体的语言与具体的上下文环境之中才有意义。如在C语言中，`a`、`b`、`c`的上下文定义不变，第二、三种写法都是可以被正确编译的）。我们编码时经常能在IDE中看到由红线标注的错误提示，其中绝大部分都是来源于语义分析阶段的检查结果。

1. 标注检查

Javac在编译过程中，语义分析过程可分为标注检查和数据及控制流分析两个步骤，分别由图10-5的attribute()和flow()方法（分别对应图10-5中的过程3.1和过程3.2）完成。

标注检查步骤要检查的内容包括诸如变量使用前是否已被声明、变量与赋值之间的数据类型是否能够匹配，等等，刚才3个变量定义的例子就属于标注检查的处理范畴。在标注检查中，还会顺便进行一个称为常量折叠（Constant Folding）的代码优化，这是Java编译器会对源代码做的极少量优化措施之一（代码优化几乎都在即时编译器中进行）。如果我们在Java代码中写下如下所示的变量定义：

Jayac.

1

```
String str3 = "str" + "ing";           String str3 =  
"string";
```

- (byte boolean short char int float long
double)
 - final
 - “+”
 << >> >>>

<< >> >>>

```
1 String str4 = new  
      StringBuilder().append(str1).append(str2).toString();
```

StringBuilder StringBuffer

final



```

1  final String str1 = "str";
2  final String str2 = "ing";
3  //
4  String c = "str" + "ing";// true
5  String d = str1 + str2; //
6  System.out.println(c == d);//

```

java

final String

Sample code (str2 its value can only be determined at runtime):

```

1  final String str1 = "str";
2  final String str2 = getStr();
3  String c = "str" + "ing";// false
4  String d = str1 + str2; //
5  System.out.println(c == d);//
6  public static String getStr() {
7      return "ing";
8  }

```

java

refer to

- In-depth understanding of String#intern: <https://tech.meituan.com/2014/03/06/in-depth-understanding-string-intern.html>
- Java String source code interpretation: <http://keaper.cn/2020/09/08/java-string-mian-mian-guan/>
- R Da (RednaxelaFX)'s answer about constant folding:
<https://www.zhihu.com/question/55976094/answer/147302764>



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