

基本数据类型的技类的技术

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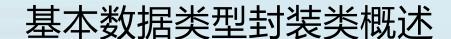
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基本数据类型封装类的变量和方法

基本数据类型封装类举例





本章导读



基本数据类型封装类的变量和方法

基本数据类型封装类举例



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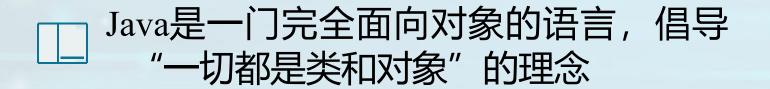
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- 回 但是,基本数据类型不是类,不能产生 对象
- Java引进基本数据类型的封装类,以统一的机制处理所有的数据类型



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整数类型的封装类

数据类型	封装类
byte	Byte
short	Short
int	Integer
long	Long



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三 浮点类型的封装类

数据类型	封装类
float	Float
double	Double

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一 布尔类型的封装类

数据类型	封装类
boolean	Boolean



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封装类体现了Java的纯面向对象的特点

型 封装类对于完成基本数据类型数据的变换操作提供了方便

例 / 将数字字符串转换为整数或者浮点数







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MAX_VALUE ☐ MIN_VALUE

在长度为100的整数数组array中找出最大值

```
int max=Integer.MIN_VALUE;
for(int i=0;i<100;i++)
  if(max<array[i])
  max=array[i];</pre>
```





public Integer(int value)

用一个int类型的量生成一个Integer对象

Integer i=new Integer(5);

自动装箱 (AutoBoxing)

Integer i=5;



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public Integer(String s)

用一个字符串生成一个Integer对象

Integer i=new Integer("05");



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public int intValue()

将Integer对象转换成int类型的值

Integer i=5;

int value=i.intValue();

自动拆箱 (AutoUnboxing)

Integer i=5;

int value=i;



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public String toString()

将Integer对象转换成一个字符串

Integer i=5;

String s=i.toString();



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public static int parseInt(String s)

把字符串转换成int类型的值

int i=Integer.parseInt("-05");



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public static Integer valueOf(String s)

把字符串转换成Integer对象

Integer i=Integer.valueOf("2007");



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山 构造方法
public Character(char c)

用一个char类型的量生成一个Character对象

Character类中的常用类方法
 public static boolean isDigit(char ch)
 public static boolean isLetter(char ch)
 public static boolean isLetterOrDigit(char ch)



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Character类中的常用类方法

public static boolean isLowerCase(char ch)

public static boolean isUpperCase(char ch)

public static char toLowerCase(char ch)

public static char toUpperCase(char ch)

public static boolean isSpaceChar(char ch)





```
public class Example{
 public static void main(String args[]) {
   char a[]={'a','b','c','D','E','F'};
   for(int i=0;i<a.length;i++)
     if(Character.isLowerCase(a[i]))
         a[i]=Character.toUpperCase(a[i]);
     else if(Character.isUpperCase(a[i]))
         a[i]=Character.toLowerCase(a[i]);
   for(int i=0;i<a.length;i++)
         System.out.printf("%6c",a[i]);
```



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基本数据类型的封装类举例

```
public class TestCapsulation{
   public static void main(String[] args){
          Boolean b = new Boolean("5");
          Byte by = new Byte((byte)5);
          Short s = new Short("5");
          Integer i = new Integer("5");
          Long 1 = \text{new Long}(5);
          Float f = new Float("5");
Double d = new Doub & ("5");
                                                   b.toString()
          Character c = new Character('5');
          System.out.println("Boolean: " + b+ " Byte: " + by);
          System.out.println("Short: " + s+ " Integer: " + i);
          System.out.println(" Long: " + l+ " Float: " + f);
          System.out.println(" Double: " + d+ " Character: " + c);
```



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基本数据类型的封装类举例

```
public class TestCapsulation{
   public static void main(String[] args){
          Boolean b =true;
          Byte by = 5;
          Short s = 5;
          Integer i = 5;
          Long l = 5L;
          Float f=5.0f;
          Double d = 5.0;
          Character c = '5';
          System.out.println("Boolean: " + b+ " Byte: " + by);
         System.out.println("Short: " + s+ " Integer: " + i);
         System.out.println(" Long: " + l+ " Float: " + f);
         System.out.println(" Double: " + d+ " Character: " + c);
```

