数值常量中的下划线

Underscores in Numeric Literals

In Java SE 7 and later, <u>any number of underscore characters () can appear anywhere between digits in a numerical literal</u>. This feature enables you, for example, to <u>separate groups of digits in numeric literals</u>, which can <u>improve the readability of your code</u>. <u>提高代码的可读性</u>

For instance, if <u>your code contains numbers with many digits, you can use an underscore character to separate digits in groups of three, similar to how you would use a punctuation mark like a comma, or a space, as a separator.</u>

The following example shows other ways you can use the underscore in numeric literals:

```
long creditCardNumber = 1234_5678_9012_3456L;
long socialSecurityNumber = 999_99_9999L;
float pi = 3.14_15F;
long hexBytes = 0xFF_EC_DE_5E;
long hexWords = 0xCAFE_BABE;
long maxLong = 0x7fff_ffff_fffff_;
byte nybbles = 0b0010_0101;
long bytes = 0b11010010_01101001_10010100_10010010;
```

You can place underscores only between digits; you cannot place underscores in the following places:

- At the <u>beginning or end of a number</u>
- · Adjacent to a decimal point in a floating point literal
- Prior to an F or L suffix
- . In positions where a string of digits is expected

The following examples demonstrate valid and invalid underscore placements (which are highlighted) in numeric literals:

```
float pi1 = 3_.1415F;
                           // Invalid; cannot put underscores adjacent to a decimal point
float pi2 = 3._1415F;
                           // Invalid; cannot put underscores adjacent to a decimal point
long socialSecurityNumber1
  = 999 99 9999 L;
                           // Invalid; cannot put underscores prior to an L suffix
int x1 = 52;
                           // This is an identifier, not a numeric literal
int x2 = \frac{1}{5} 2;
               __2;
                           // OK (decimal literal)
int x3 = 52;
                          // Invalid; cannot put underscores at the end of a literal
int x4 = 5
                          // OK (decimal literal)
int x5 = 0 \times 52;
                          // Invalid; cannot put underscores in the 0x radix prefix
int x6 = 0x_52;
int x7 = 0x5_2;
int x8 = 0x52_;
                          // Invalid; cannot put underscores at the beginning of a number
                          // OK (hexadecimal literal)
                          // Invalid; cannot put underscores at the end of a number
                          // OK (octal literal)
int x9 = 0 52;
int x10 = 05 2;
                           // OK (octal literal)
int x11 = 052;
                           // Invalid; cannot put underscores at the end of a number
```

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