

,

,

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- 가
- 8가 (, , , ,



- 가 4가
- 가



- boolean true false 1
- char (2 byte) 2byte
 - : \u0000
- byte 가 1byte byte.
 - : 0
- int(4 byte) (2 byte) (8 byte)
- float (floating-point) float
 - : 0.0F
- double float (8byte) double
 - : 0.0



- , 가 (precision)가 , 가
- float 7 10 7 double 가 7

- (Primitive Type)' (Reference Type)
- (Primitive Type) : (boolean), (char), (byte, short, int, long), (float, double)
- (reference type) : Java.lang.Object

-
- 2020



- , 2020, 123, 3.14, "ABC"

-

?

- (Immutable) .((immutable class))
-
- Ex: Java.lang.String java.awt.Color



- : (type)
- : 가



```
(initialization)
```

- year 가 2020 . year int
- , .
- ,

가

1. **(explicit initialization)**

:

가

2. (initialization block)

:

```
class ExplicitInitialization {
    static {
        /*          */
    }
    {
        /*          */
    }
}
```

- : . 가
- : . 가

3. (constructor)

:

가 .

```
class A {
    int instanceValue; //
    static int classValue; // (static, )
    void method(){
        int localValue = 0; //
    }
}
```

static 가 static 가 localValue ,

1.



1) (instance variable)

- , .
- 가 .
- Ex: 1000 가 .

2) (class variable)

- static 가 가
- 가
- (global variable) 가 .

```
class LottoTicket {
    public static final LOTTO_PRICE = 1000;
    ...
}
public static void main(String[] args) {
    //LottoPrice: 1000
    System.out.println("LottoPrice: " + LottoTicket.LOTTO_PRICE);
}
```

3) (local variable)

- 가 .
- for while ,

```
public static void main(String[] args) {
    for (int i = 0; i < 10; i++) {
        System.out.println("i = " + i);
    }
    System.out.println("i = " + i); //Checked Exception
}
```

()

1.



2.



,

가 .

,

•

```
double value = 123.456;
int score = (int)value;
System.out.println(value == 123.456); //true
```

- (primitive type) boolean 가 .
- , 가 ()가 (loss of data) .

- 가 .
- , 가 가 .

```
byte b = 10000; // . byte -128~127 .
byte c = (byte)10000; // 가 .
```

- 가 가



1 2

, var

Ref

<https://catsbi.oopy.io/6541026f-1e19-4117-8fef-aea145e4fc1b>
<https://github.com/whiteship/live-study/issues/2>

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