



- 가
- 8가 () , , , ,



- 가 4가
- 가

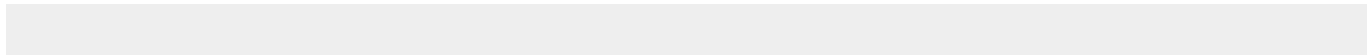


- boolean true false 1
 - : false
- char (2 byte) 2byte
 - : \u0000
- byte 가 1byte byte.
 - : 0
- int(4 byte) (2 byte) (8 byte)
 - : 0
- float (floating-point) float
 - : 0.0F
- double float (8byte) double
 - : 0.0



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

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



-
- 2020



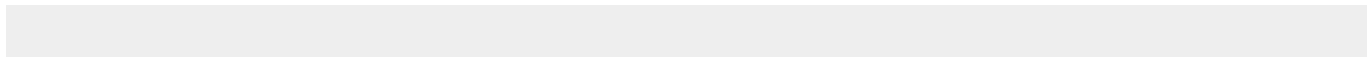
- , 2020, 123, 3.14, "ABC"



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



- : (type)
- : 가



(initialization)



- year 가 = 2020 year int
- ,
- ,

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
- 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.



(가 .)

2.



3.

```

class InitTest {
    static int classValue = 1;
    int instanceValue = 1;
    static {
        classValue = 2;
    }
    InitTest() {
        instanceValue = 3;
    }
}

```



- (1~3): 가 .
- (4~7): .
- _____ .

,

가 .

□ (type)operand

- .

```
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 가 가 .

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

- 가 가



1 2

1.



- ([[]]) .

2.

```
[ ] = new [ ];
```

- new
-

1 & 2

- 1
- 2 가 ([]) 가 1 1 , 2

1. 1

```
int[] oneDimensionalArray = new int[5]{1, 2, 3, 4, 5};
```



1

2. 2

```
int[][] twoDimensionalArray = new int[2][2]{{1, 2}, {3, 4}};
```



2

- 2 / twoDimensionalArray 2 2 2 new int[][]

, var

Ref

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

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