13-08-2024

13 August 2024 05:59

Datatype

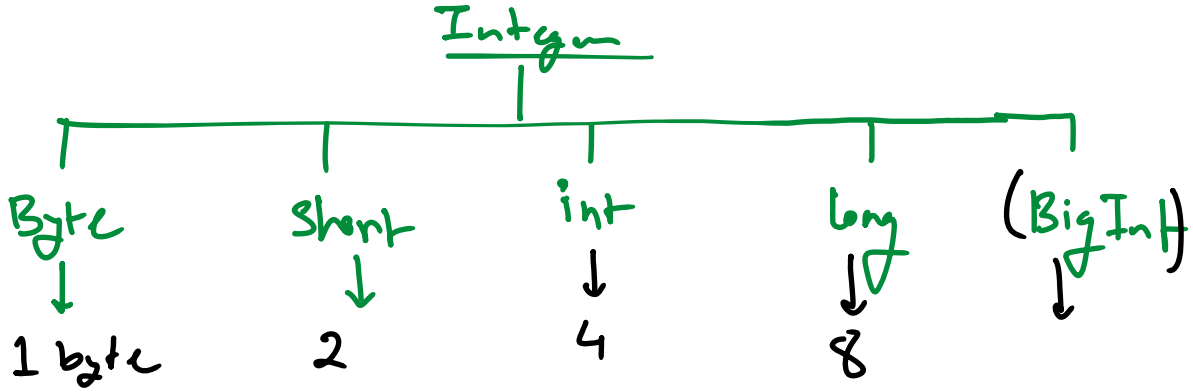
0 — 9 ⟶ Integer

float ⇒ 1.9 ⟶ Float / Double

"String" ⟶ String

'A' 'B' ⇒ Char

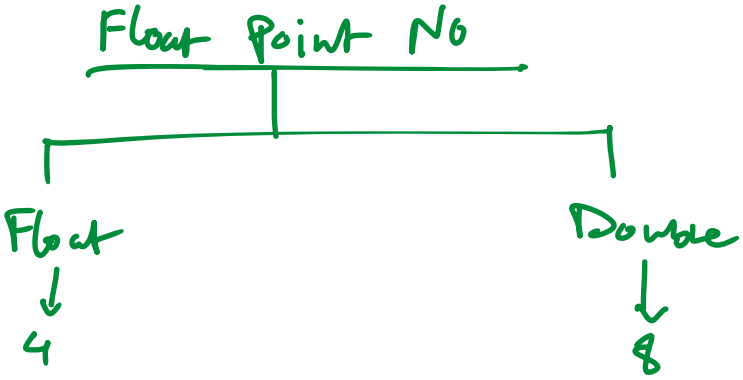
T / F ⇒ Boolean



(-127 → 128) (-34287 → 34288)

⇓

Damage



Char ⇒ 1

boolean ⇒ 1

String ⇒ ✓

Char ⇒ ASCII value

→ 0 → 255 → 256

^ → * ( ) + =

Number

binary 0/1

(A-Z)

ABC → 65 → 90

(a-z)

97 — 122

A B C

65 66 67

64 32 16 8 4 2 1

1 0 0 0 0 0 1

65 → 1000001

66 → 1000010

67 → 1000011

Operators

Math ⇒ +, −, *, /, %.

binary ⇒ &, |, ^, <<, >>

/, %

10 | 1001 | 100

binary ⇒ &, |, ^, <<, >>

logical ⇒ &&, ||, !
↓ ↓ ↓
And Or NOT

10 | 1001 | 100
1000
1

Condition = <, >, !=, ==

10 < 12 ⇒ T/F ✓

12 > 10 ⇒ ~~T~~/F

!(10 < 12) ⇒ T/F ✓

(10 > 12 && 13 < 15) ⇒ T/F

(10 > 12 || 13 < 15) ⇒ T/F

binary :

15
66

& ⇒ 1000000 |
& 1000010
1000000 ⇒ 64

1 & 1 ⇒ 1

0 & 1 ⇒ 0

1 * 0 = 0
1 * 1 = 1

or ⇒ | ⇒ 1000000 |
1000010
1000011
64 2 1

1 | 0 = 1
1 | 1 = 1

64
2
1
67 ⇒ C

(^) XOR ⇒ 1000000 |
^ 1000010
0000011

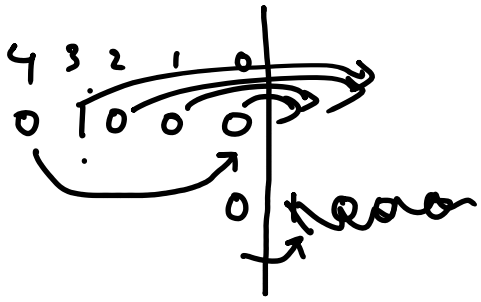
1 ^ 1 = 0
0 ^ 0 = 0

1 ^ 0 = 1

0 ^ 1 = 1

<< ⇒ Left shift ⟶ 0 0 0 1 → 1 << 4 ⇒ 10000

>> ⇒ Right Shift ⇒ 1000 ⇒ 1 >> 4 ⇒ 0



H.W

1. 2347 ⇒ WAP to find 3rd digit ?

↳ 3

77714748

2. Any number WAP to find 2 bit of that NO?

3. WAP to check even odd NO?

**4. WAP to Find 4th bit and change 4th bit to 0?

7 ⇒ 4 3 2 1 0
0 0 1 1 1 ⇒

16 ⇒ 10000 ⇒ 00000 ⇒ <<, &, ^

10000

0 0 0 0 0 → 16

1 & 0 = 0

```
//      int age = 20;
////
////      if(age <= 14) {
////         System.out.println("Child");
////      } else if(age <= 18) {
////         System.out.println("Grandchild");
////      } else {
////         System.out.println("Grand");
////      }
//
//      // ternary operator ?
//
//      System.out.println(age <= 14 ? "Child" : "Grandchild");

//      int num = 10;


//      System.out.println(num != 10 ? num + 2 : num + 5);
//
//
//      String ans = (num != 11) ? (num == 20) ? "equal 20" : "not equal
20" : "not equal 10";
//
//      System.out.println(ans);


      // Loop

      // while, do while, for

      /*System.out.println("index 1");
      System.out.println("index 2");
      System.out.println("index 3");
      System.out.println("index 4");
      System.out.println("index 5");
      System.out.println("index 6");
      System.out.println("index 7");
      System.out.println("index 8");*/


      // init
      // condition
      // incre / decre

//      int i=1;

      // while loop
/*
      while(i <= 8) {
         System.out.println("Index " + i);
         i++;
      }
*/

      // for loop
/*       for( ; i<=8; ) {
         System.out.println("Index " + i);
         i++;
      }
*/

      // do while
/*       do {
         System.out.println("Index " + i);
         i++;
      } while(i < 9);
```

```
*/

    // Switch cass

//    Scanner sc = new Scanner(System.in);
//    System.out.println("Enter your name : ");
//    String name = sc.nextLine();
//
//    switch (name) {
//      case "krupa":
//        System.out.println("good boy");
//        break;
//      case "shikha":
//        System.out.println("good girl");
//        break;
//      default:
//        System.out.println("not matched");
//    }

/*
    Scanner sc = new Scanner(System.in);

    System.out.println("Enter your age : ");
    int age = sc.nextInt();
    sc.nextLine();
    System.out.println("Enter your name : ");
    String name = sc.nextLine();

    System.out.println(age);
    System.out.println(name);

*/

    Scanner sc = new Scanner(System.in);

    for(int i=0; i<10; i++) {
      System.out.println("Enter Your name");
      String name = sc.nextLine();

      System.out.println(name);
    }
```