0001 1101 . 0010

1 D . 2

0000 0

1111 .5

0001 1111

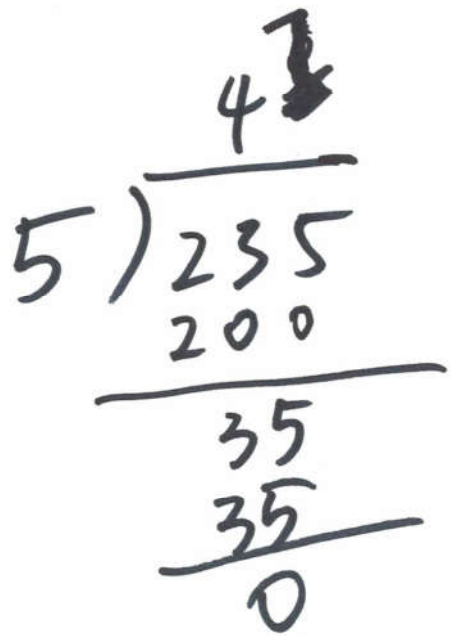
Binary → 14-based

1101 → decimal → 14-based

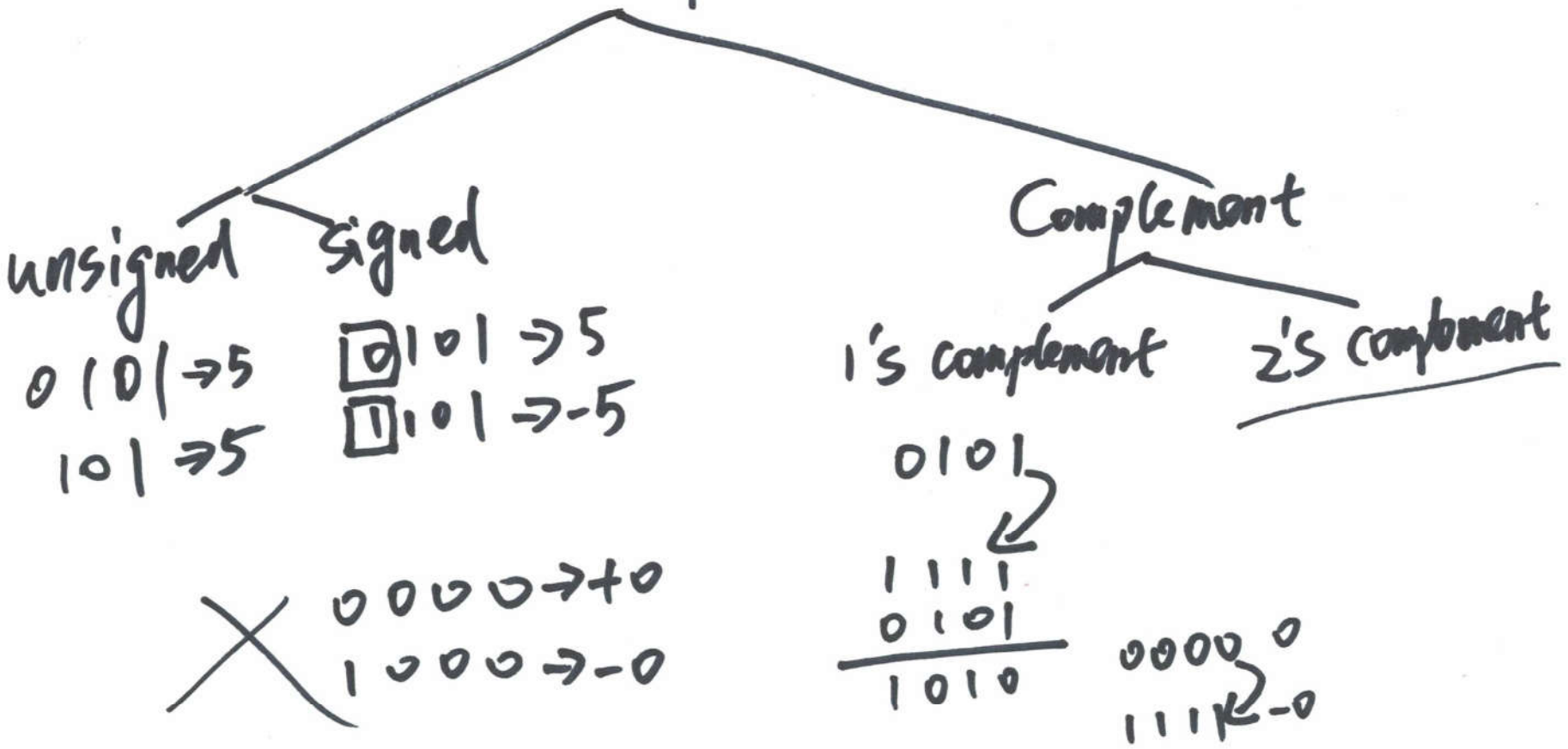
Binary → Octal

001 101 111

Binary Division



Data Representation



10's complement of 5 is 5
6 is 4
1 is 9

Concept of 2's complement (Definition)

0101 +5

```
  1111
- 0101
------
  1010
```

1's complement

```
  1010
+    1
------
  1011
```

+1

2's complement

-5

10111

8 2 1

0101 = +11

```
  10100
+     1
-------
  10101
```

-11

1011 → -5

```
  1011
-    1
------
  1010
```

0101 = 5

$\underline{1}\,\overline{0111}$

$-16 \quad +7 \quad = -9$

10110

01001

$-2 \leftarrow 11 = -1$

$11111110 = -2$

$-4 \leftarrow 111 = -1$

$-8 \leftarrow 1111$, $+7$ $= -1$

$111111111111 = -1$

$-2 \leftarrow 10 = -2$

$-4 \leftarrow 110 = -2$

(5)