

$$\begin{array}{r} 1011 \\ 1010 \\ \hline \end{array}$$

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2mm 2.10cm

$$\begin{array}{l} 1 \times 1 = 0 \\ 0 \times 0 = 0 \\ 1 \times 0 = 1 \\ 0 \times 1 = 1 \end{array}$$

$$10^4 \times 10^4 = 10^8$$

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O()

```
public int setBits(int n) {
    // write code here
    int count = 0;
    while(n > 0){
        if((n & 1) == 1) count++;
        n = n >> 1;
    }
    return count;
}
```

Number System

• Decimal $\rightarrow 10$
0, 1, 2, 3, 4, 5, 6, 7, 8, 9

• Hexadecimal $\rightarrow 16$
0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F

• Binary $\rightarrow 2$
0, 1

0 \rightarrow 0
1 \rightarrow 1
10 \rightarrow 2
11 \rightarrow 3
100 \rightarrow 4
101 \rightarrow 5
110 \rightarrow 6
111 \rightarrow 7
1000 \rightarrow 8

0 1 2 3 4

$$1304 = 1 \times 10^3 + 3 \times 10^2 + 0 \times 10^1 + 4 \times 10^0$$

$$\begin{array}{l} 10 \times 10 = 100 \\ 10 \times 10 = 100 \\ 10 \times 10 = 100 \\ 10 \times 10 = 100 \end{array}$$

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