Topics to discuss

convert binary to decimal
$$(x)_2 = (x)_{10}$$

```
Static int solution (long n) {
   int decimal = 0
    int pow = 1
    while (n!=0) {
     long rem = n/10;
     n = n/10;
    decimal t = rem x pow;
     pow = pow x 2;
    Je turn decimal;
```

```
initially, decimal = 0

pow = 1

n = 1100

rem = 1100 \times 10 = 0

n = 1100 / 10 = 110

rem = 110 / 10 = 0

rem = 110 / 10 = 0

rem = 110 / 10 = 0

rem = 110 / 10 = 11

rem = 110 / 10 = 11

rem = 110 / 10 = 11
```

derind =
$$0 + 0 \times 2 = 0$$

 $pow = 2 \times 2 = 4$
3) $yem = 11/10 = 1$
 $n = 11/10 = 1$
 $derived = 0 + 1 \times 4 = 4$
 $pow = 4 \times 2 = 8$

9
$$yem = 1/10 = 1$$
 $n = 1/10 = 0$

deciral = 4+ 1×8 = 12

 $pow = 8x2 = 16$

Static int solution2 (long n) {

String Str = Long. to String (n);

return (Integer. parse Int (str, 2));
}

T. C=0(n) S. C= 0(1)

Syntax of parse Int: parse Int (string, radix)

Return an integer value with base Specified as radix.

Radix specifies that the number system to be used.
for eg: binary = 2, octal = 8

Follow Now



Start Practicing



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