Topics to discuss

Convert decimal to binary:
$$(x)_{10} = (x)_{2}$$

Decimal to binary conversion

$$eg:-(38)_{10}=?$$

```
Static long solution (int n) {
    long binary = 0;
     int rem;
     int pow = 1;
     while (n1=0) {
         rem = n 1/2;
          n = n | 2;
          binary + = rem * bow
     pow *= 10;
return binary;
```

```
binary = 0 , pow = 1

Let n = 9

O xem = 9/.2 = 1

n = 9/2 = 4.5 = 4

binary = 0 + (1 \times 1) = 1

S. C = O(1)
```

② rem =
$$4\%$$
 2 = 0
 $m = \frac{4}{2} = 2$
bivory = $1 + 0 \times 10 = 1$
 $pow = 10 \times 10 = 100$

pow = 1 ×10 = 10

(3)
$$xem = 2/2 = 0$$

$$n = 2/2 = 1$$

$$binary = 1 + 0 \times 100 = 1$$

$$porr = 160 \times 10 = 100$$

G rem = 1/2 = 1

$$n = 1/2 = 0.5 = 0$$

biner = 1 + 1 × 1860 = 1+ 1660 = [100]
 $pow = 1000 \times 10 = 10000$

Solution -2

```
static string solution (int n) {

String binary = Integer. to Binary String (n);

return binary;

?
```

$$T \cdot C = O(1)$$

$$S \cdot C = O(1)$$

Follow Now



Start Practicing



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Arfin Parween



arfin-parween