

Logical operator:

&amp;&amp; ← AND

|| ← OR

! ← NOT

int x = 5;

if (x &lt; 10 || (pow(x, 2) &gt; 0 &amp;&amp; x % 2 == 1))



— o —

Increment / Decrement

++ , --

int x = 5;

x++;

— o —

Conditional / Ternary

if (x &lt; 10)

x++;

else

x = x + 5;



x = (x &lt; 10) ? x + 1 : x + 5;

cond

true

false

if (x &lt; 10)

x = x + 5

else if (x &lt; 20)

x = x + 3

else

x = x + 1

x = (x &lt; 10) ? x + 5 : (x &lt; 20 ? x + 3 : x + 1)

$x = x + 1$

if ( )

if  $\rightarrow$  something point  $5 < x$   
 $x + 1$

else,  $x$

$5.6 \rightarrow 6$      $5.5 \rightarrow 5$

$5.4 \rightarrow 5$

— 0 —

88

&

11

|

^

A	B	$A \wedge B$
0	0	0
0	1	1
1	0	1
1	1	0

12 & 17

12  $\rightarrow$

0 1 0 0

17  $\rightarrow$

1 0 0 0 1

0 0 0 0 0

112  $\rightarrow$  (64) + (32) + (16)  $\rightarrow$  (1110000)  
 $2^6 + 2^5 + 2^4$   
 $2^6 2^5 2^4 2^3 2^2 2^1 2^0$   
 binary  $\rightarrow$  count(1)

— 0 —

$n$ ,  $n$  बिजोड़,  $n > 1$

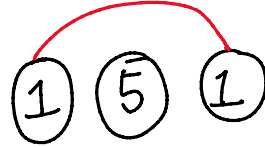
14 ,

(n-1) ভেঁড়া সংখ্যা

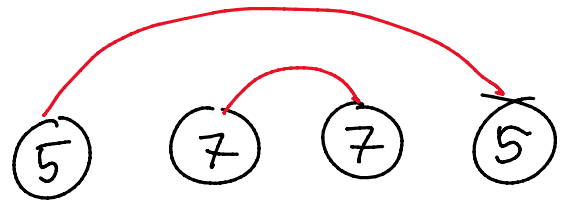
n=7

6

n=7



↪ 5



1 → 2

5 → 3

7 → 2

1 1 5 5 5 5 7

$O(N) \rightarrow O(1)$

$$A \wedge A = 0$$

$$A \wedge B \wedge C = (A \wedge B) \wedge C = A \wedge (B \wedge C)$$

$$A \wedge C \wedge B$$

$$B \wedge A \wedge C$$

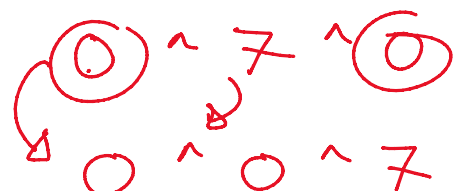
$$B \wedge C \wedge A$$

$$C \wedge A \wedge B$$

$$C \wedge B \wedge A$$



0 ^ 0 ^ 7 ^ 0



0 ^ 7

$$0^7 = 7$$