



MS-Basics of Programming

Special class

① Datatype (signed/unsigned) → Video ✓

② +ve, -ve store → video ✓

③ LSRS → Learn C++

① Namaste Codehelp

==

② Read & Print an Integer

↓ Background

```
int main()  
{  
    int num;  
    cin >> num;  
    readAndPrint(num);  
    cout << ans;  
}
```

garbage

int ans;

```
int readAndPrint(int num)  
{
```

```
    cout << num;  
    return num;  
}
```


Back ground =

comple

50

```
int main ()  
{  
    int num;  
    cin >> num;  
    50 int ans;  
    ← ans = readA (num)  
    cout << ans; → 50  
}
```

50

```
int readA(int num)  
{  
    . . . ; →  
    return num;  
}
```

③ Print Half of an Integer

//

④

Sum of 2 Integers

$=$

$(a+b); \checkmark \checkmark$

readable

$\text{int sum} = a + b;$

~

5 Avg. of 3 Ints

$$a = 5, b = 4, c = 17$$

$$\text{int Avg} = (5 + 4 + 17) / 3$$
$$= 26 / 3$$

```
int Avg(int a,  
        int b,  
        int c)  
{  
    int Avg = (a + b + c) / 3;  
    return Avg;  
}
```


$$\frac{26}{3}$$

=>

$$\boxed{8.666\dots}$$

=

(int)

int Avg

=

$$\frac{26}{3} \rightarrow$$

(int)

$$\boxed{\text{Avg} = 8}$$

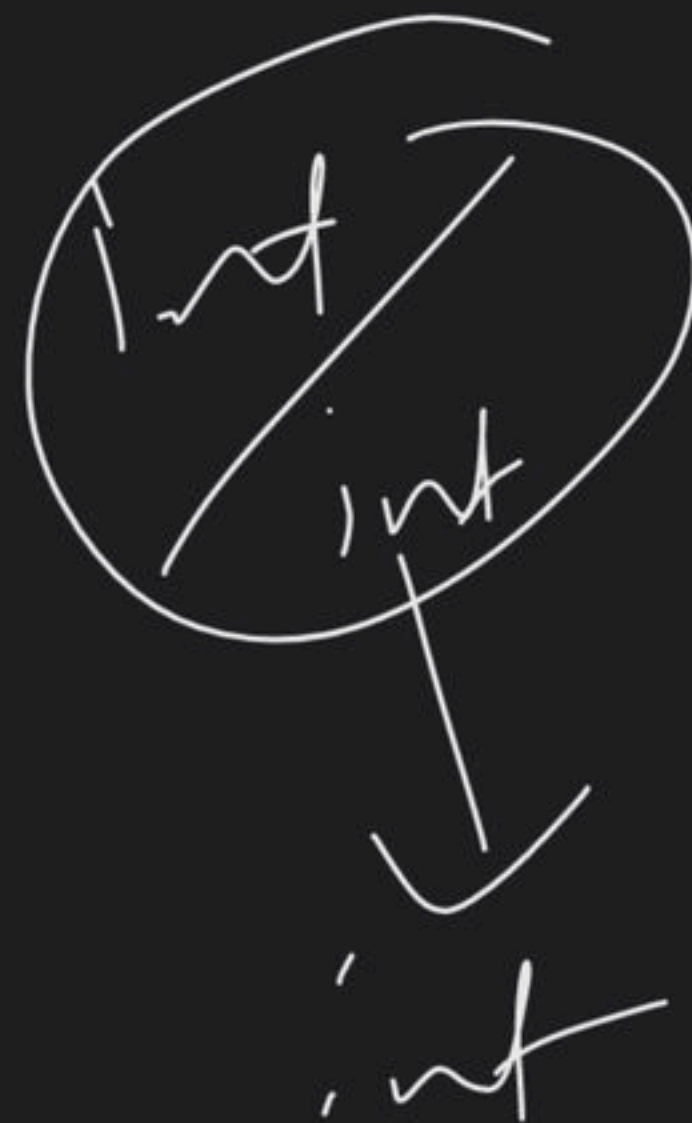
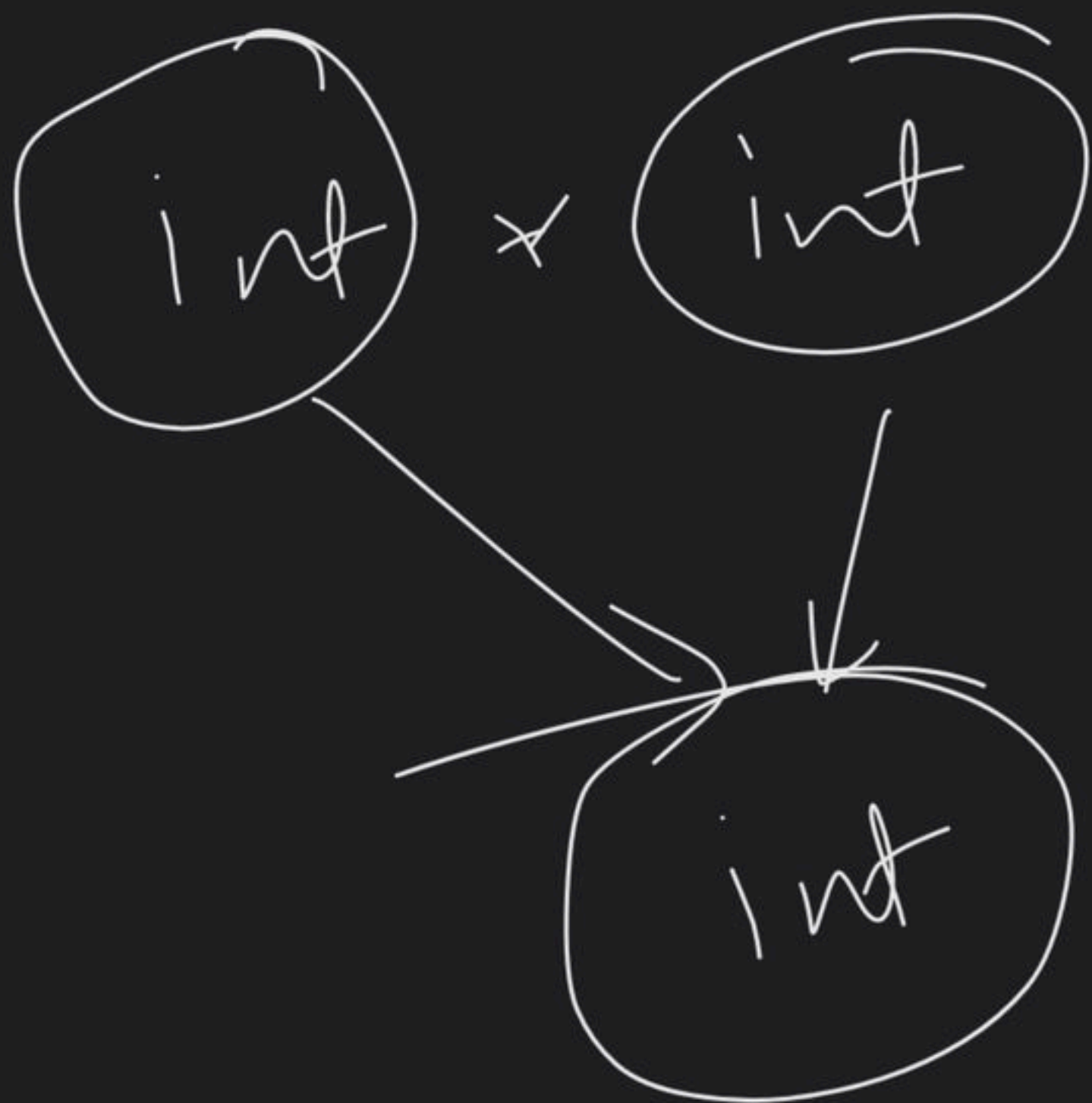
⑥

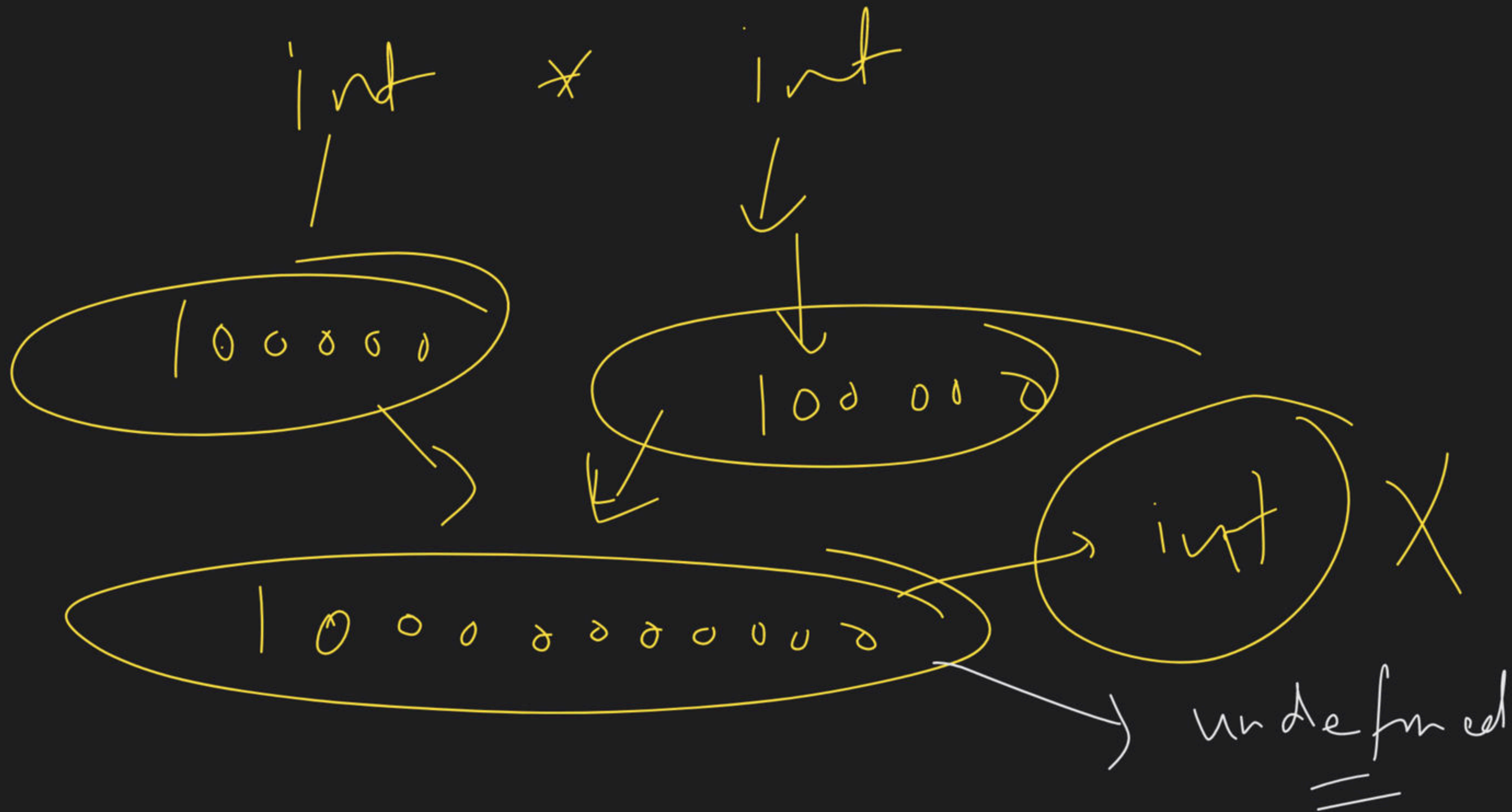
Cal. Area of Rectangle

int → 4 bytes

long → 4 bytes

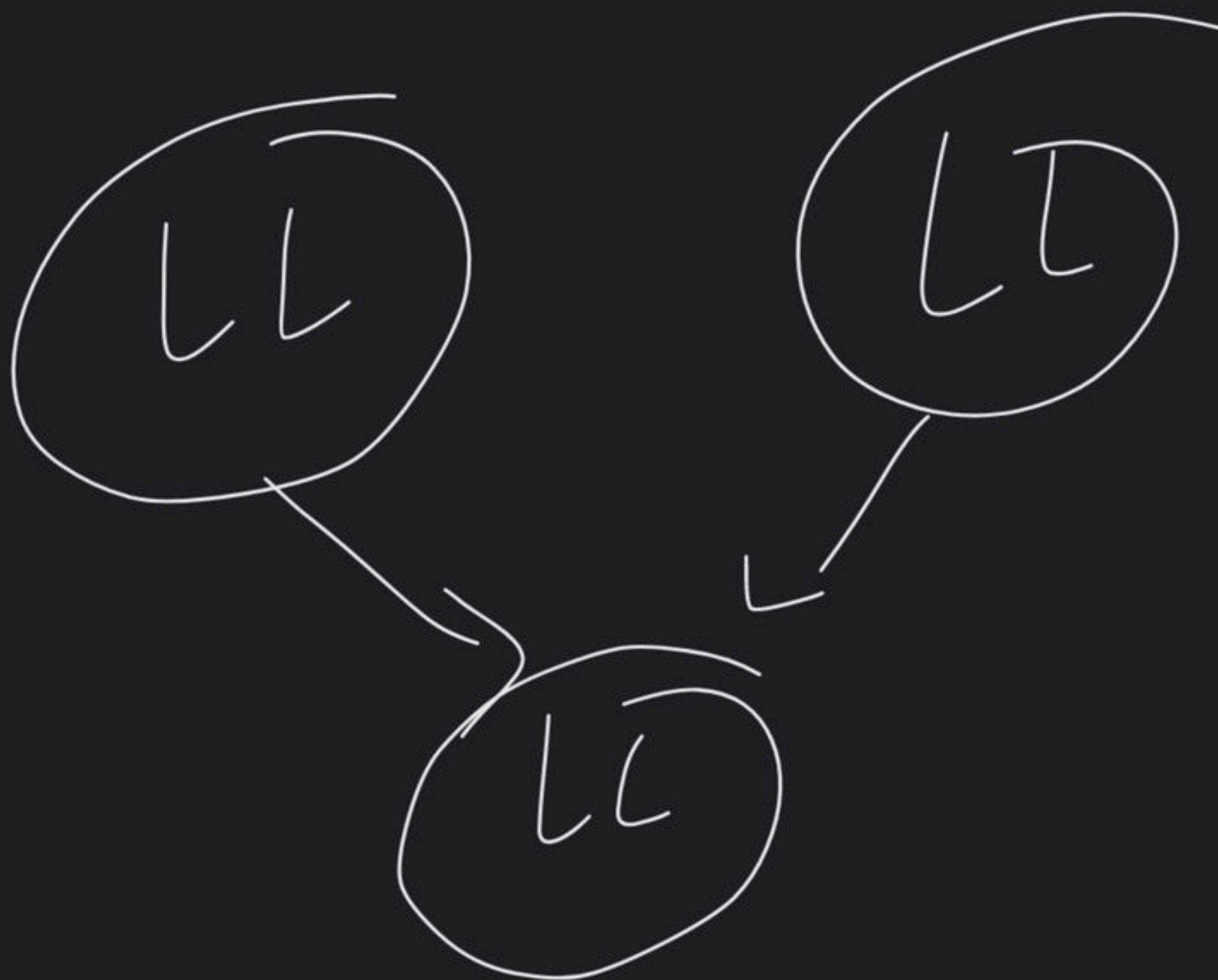
long long → 8 bytes





long long a =

for



⑦ Cal. \circ/\circ

TM \rightarrow int

OB \rightarrow int

int ~~TM~~ ;

int OB ;



$a \times b$



8000

82957

~~*~~



⑤

check Number Sign

==

⑨ Voting Eligibility Checker

==

16

Determine Day Type

5-5-5

Continuum " "

5-5-5-

5-5-5

$n = 3,$

$num = 5$



Count LL 5 LL LL

5-5-5-

5-5-50^x \Rightarrow

$N=3$, $num=5$

$i=0 \rightarrow$

$i=1 \Rightarrow$

$i=2 \Rightarrow$

$2 \leq 3$
 $\text{for } (i=0, i < n, i++)$

$\text{count} < \text{num};$

$\rightarrow \text{if } (i \neq n-1)$

$\{$
 $\quad \text{count} < \text{num} - 1;$
 $\}$

✓✓

5-5-5

5-5-5

num = 5,

n = 3

i = 0 →

i = 1 →

i = 2

for (i = 0, i < 3; i++)

{
 count < num;
 2 ≠ 2 X → ②
 if (i ≠ n-1)

~~{
 count < " "
}~~

$$N = \underline{10}$$

2 → 4 → 6 → 8 → 10

$$i = 2$$

$$i = 4$$

$$i = 6$$

$$i = 8$$

$$i = 10 \rightarrow$$

```
for (i = 2; i <= N; i += 2)
```

```
{  
    cout << i;
```

```
    if (i != N && i != n-1)
```

```
    {  
        cout << " ";
```

```
}
```


$$N = 5$$

$$\boxed{2-4}$$

$$(i=2)$$

$$(i=4)$$

$$i=6$$

$$4 \neq 4$$

for $(i=2, i \leq N, i+=2$
 $\{$
 \rightarrow count num
 $\text{if } (i \neq N \text{ \& \& } i \neq n-1)$
 $\{$
 $\text{count}++$
 $\}$
 $\}$

$N = 9$

2-4-6-8

$i = 2$

4

6

T 4 & F

for ($i = 2; i \leq N; i += 2$)

{ count < i;

if ($i \neq N$ & & $i \neq N-1$)
8 9 8
count < < " " "

8
10

T

F

2 3

if (T == F)

{

}