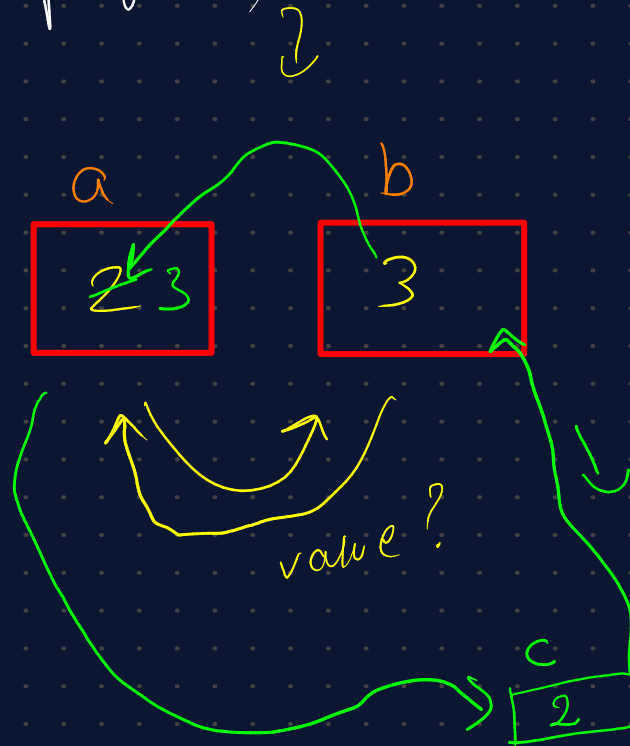


(Clan → 5)

(11th May) 2024

(Swap of no)



①

```
int a = 2;  
    b = 3;  
    c = 0;  
    {  
        c = a;  
        a = b;  
        b = c;  
    }  
    no swap done
```

(Don't use 3rd var)

$a = a + b;$

$a = 5$

$b = a - b;$

$b = 2$

$a = a - b;$

without 3rd var

(Fibo) $a + b$ \oplus

$(0 \ 1 \ 1 \ 2 \ 3 \ 5 \ 8 \ 13) \dots$

1 element
2 3 4

(Logic) ?

$(\begin{matrix} a & b \\ 0 & 1 \end{matrix}, \begin{matrix} R \\ 1 \end{matrix})$

$n=3$

$(R = a + b)$ \checkmark
 \uparrow
 $n \text{ times}$

$n = (n-1) + (n-2)$
value value

(Loop) \checkmark

St. value = 0

Resultant value \Rightarrow Last 2 kco
Add karke

(Flowchart)
Pseudocode

a, b, n

$\hookrightarrow n$ input \checkmark

$\hookrightarrow a + b \xrightarrow{(n) \text{ times}} \text{Result Store}$
 $\hookrightarrow \text{Result}$

3

0 1 \downarrow (loop)

$(0 \rightarrow n)$
 $\text{loop} \rightarrow 3$

$a \oplus b$
 $0 \ 1 \ 1 \ 2 \ 3 \dots$

$b = a;$
 $a = b;$ \checkmark

```
for (int i = 3; i <= n; i++)
```

```
{
```

```
    sum = a + b;
```

```
    cout << sum << " ";
```

```
    b = sum;
```

```
    a = b;
```

```
}
```

reverse to solve Conrad

Output

1 2

6



Break ☒
Continue ☒

(Variable & Scope)

main()

```
{  
  int a = 4;  
}
```

LoL()

```
{  
  int a = 2;  
  cout << a;  
}
```

} exist X

use
illegal

absent

This function me local
Agr koi var bna rhe

hai toh

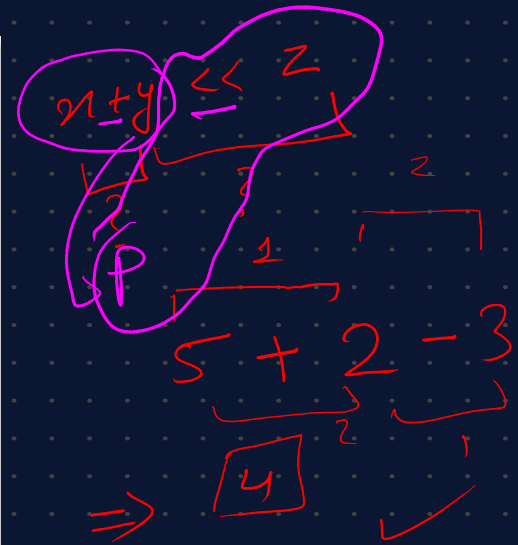
Wo function khtm

hone par
gyab ho jayeega.

```
main() {  
  int a = 2  
  a = 2;  
}
```

Next page ↓

Category	Operator	Associativity
Postfix	<code>[] -> . ++ --</code>	Left to right
Unary	<code>+ - ! ~ ++ -- (type) * & sizeof</code>	Right to left
Multiplicative	<code>* / %</code>	Left to right
Additive	<code>+ -</code>	Left to right
Shift	<code><< >></code>	Left to right
Relational	<code>< <= > >=</code>	Left to right
Equality	<code>== !=</code>	Left to right
Bitwise AND	<code>&</code>	Left to right
Bitwise XOR	<code>^</code>	Left to right
Bitwise OR	<code> </code>	Left to right
Logical AND	<code>&&</code>	Left to right
Logical OR	<code> </code>	Left to right
Conditional	<code>?:</code>	Right to left
Assignment	<code>= += -= *= /= %= >>= <<= &= ^= =</code>	Right to left
Comma	<code>,</code>	Left to right



$$(5 + 2 - 3)$$

$$\begin{array}{c} 4 * 3 / 3 \\ \hline \textcircled{1} \quad \textcircled{2R} \end{array}$$

Bar Bar \rightarrow ~~no~~ ?



() - simplify

$$(5 + (2 - (3 - 9) + x))$$

③ ① ②

LeetCode (1)

Q → 1281

(Subtract the Product and sum of digit of a no)

Given an integer number n, return the difference between the product of its digits and the sum of its digits.



n ← digit
Product
Sum

P - S Ans

Diya Jayega i/p

n = [2 3 4]

$$P = \underline{2 \times 3 \times 4} = 24$$

$$S = \underline{2 + 3 + 4} = 9 \quad (24 - 9) = 15$$

Ans

- ① understand Q?
- ② Given values?
- ③ Examples
- ④ Constraint \Rightarrow

$$1 \leq n \leq 10^5$$

LeetCode APP -

Quest \Rightarrow

- ① { und
Giv
Examp
const
Rough logic

code!
(10 min)
Discussion

I see

(10 min)
Rough logic

code!
(Solution delco)

code karunye khud se
Bookmark
Bad me fir se

$$1 \leq \text{Integer} \leq 10^5$$

Integer (-ve)

$$\text{Integer} > 10^5$$

(Range of Integer)

$$\Rightarrow \left. \begin{array}{l} \text{min val} = 1 \\ \text{Max} = 10^5 \end{array} \right\}$$

$n \Rightarrow 234 \xleftarrow{\text{ek sath}}$

sum = 0

product = 1

$p \Rightarrow 2 \times 3 \times 4$
 $s \Rightarrow 2 + 3 + 4$

(Alag no hai)

ek sath \rightarrow Alag kaise kare?

234 \rightarrow 2
 \rightarrow 3
 \rightarrow 4

? 

Integer range
 n range
 Input range

$1 \leq n \leq 10^5$

value do
 koi value do
 ton o/p ☒

$c = i + 1$ valid

$(c+1)$ not valid

modulo 7

Remainder

234 \rightarrow Alag

$(234 \% 10) \rightarrow 4$
 divide
 $10 \overline{) 234} \begin{matrix} 23 \\ 20 \\ \hline 34 \\ 30 \\ \hline 4 \end{matrix}$
 milque

sum/product ✓

$\int \frac{5}{10} \Rightarrow \int 10 \checkmark$

$$\frac{234}{10} \Rightarrow$$

(23)

(3)

$$\frac{23}{10} \Rightarrow$$

$$\Rightarrow \frac{23}{10} = 2 \text{ remainder } 3$$

↓

$$\frac{23}{10} = 2$$

(2)

$$\frac{2}{10} \Rightarrow \frac{2}{10} = 0 \text{ remainder } 2$$

$$\frac{2}{10} = 0$$

Congratulations!

234 → Procen

↓
4 ①
3 ②
2 ③

$$4 + 3 + 2$$

$$4 \times 3 \times 2$$

Pro, Sum ✓

Sub
-

Ichud se banane ke
(adv me)

