

#include<iostream>

(Type-Casting)

\* Notes - ① Human Efforts  $Cin \& Cout > Printf, Scanf$

② Time Efficiency  $Print \& Scanf > Cin \& Cout$

③

## Operators

④

Loop : while, for, do-while

⑤

Conditional Statement → if-else / Switch

+

Reserved Keyword → Continue / Break

⑤ Array - "Collection of Similar elements / data in Contiguous Memory Allocation"

Eg:- int arr [5],  
= 20 bytes

Note :- Base-Address = 2004  
Index : 4 \* 4 = 16



Note :- int arr [360]  
L > C > R

Array → length =  $\text{sizeof}(\text{Arr\_var\_name})$

Eg -  $\text{int arr[5]}$

$\text{cout} \ll \text{sizeof(arr)}$

// O/p - 20

$\text{cout} \ll (\text{sizeof(arr)} / \text{sizeof(arr[0])})$

20 / 4

= 5

\* String :- "Collection of Characters ends with \0".

i) #include <String>

ii) Eg:- String var-name = " " ;

iii) Pre-Defined Methods :-

① String length :- Eg - String name = "abc-xyz"

Cout << name.length() << endl;

Or

Cout << name.size() << endl;

many forms  
leg-written

② String Concatenation :-

Eg - String fname = "abc"

String lname = "-xyz",

String fullname = fname + lname

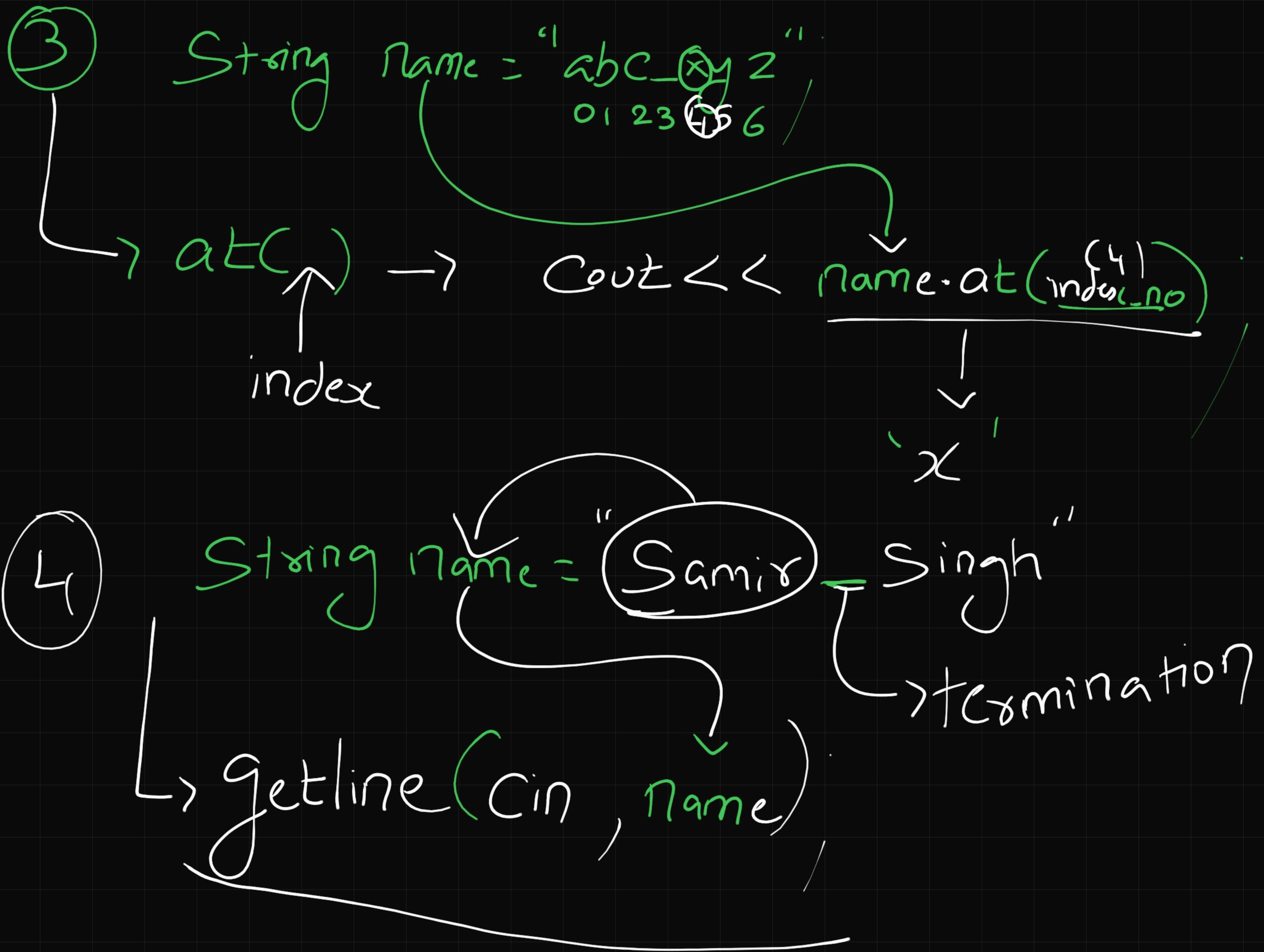
"Polymorphism"

i) append( ) :-

Eg - String fname = "abc",

String lname = "-xyz",

String fullname = fname.append(lname);



5 After morning , he was "Suppose" to do it.

String Stat = "After morning, he was  
                  "/"Suppose" / to do it".

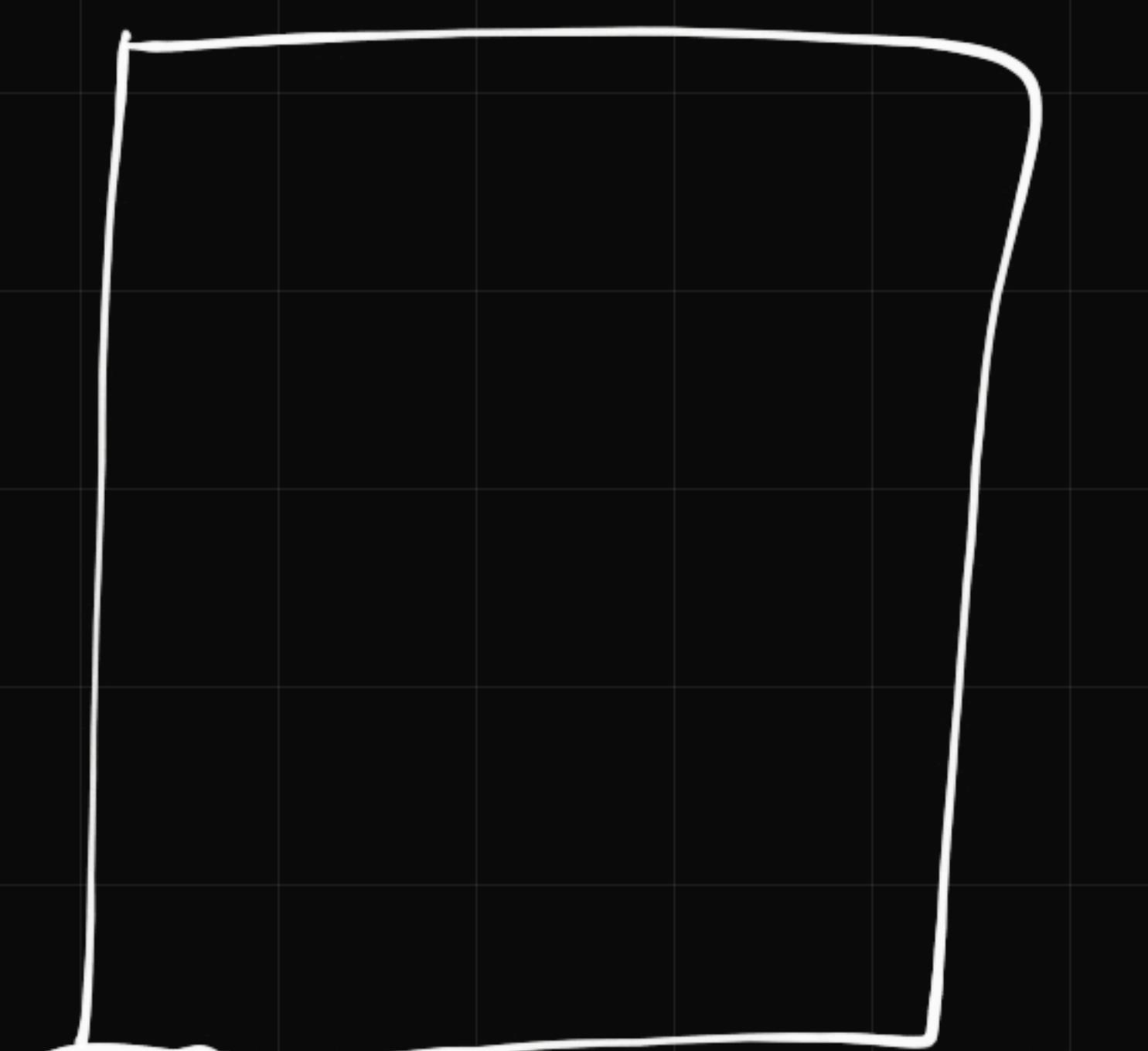
\* Structure = "User-defined Datatype".

union  
Struct  
VarName { int a;  
              Char c;  
              double d; }  
VarName . C = H .

Struct  $a1 \{ \text{int } a; (4) \}$

Char c; (1)

{double dx; (8)}



(13 Bytes)

Union  $a2 \{ \text{int } a';$

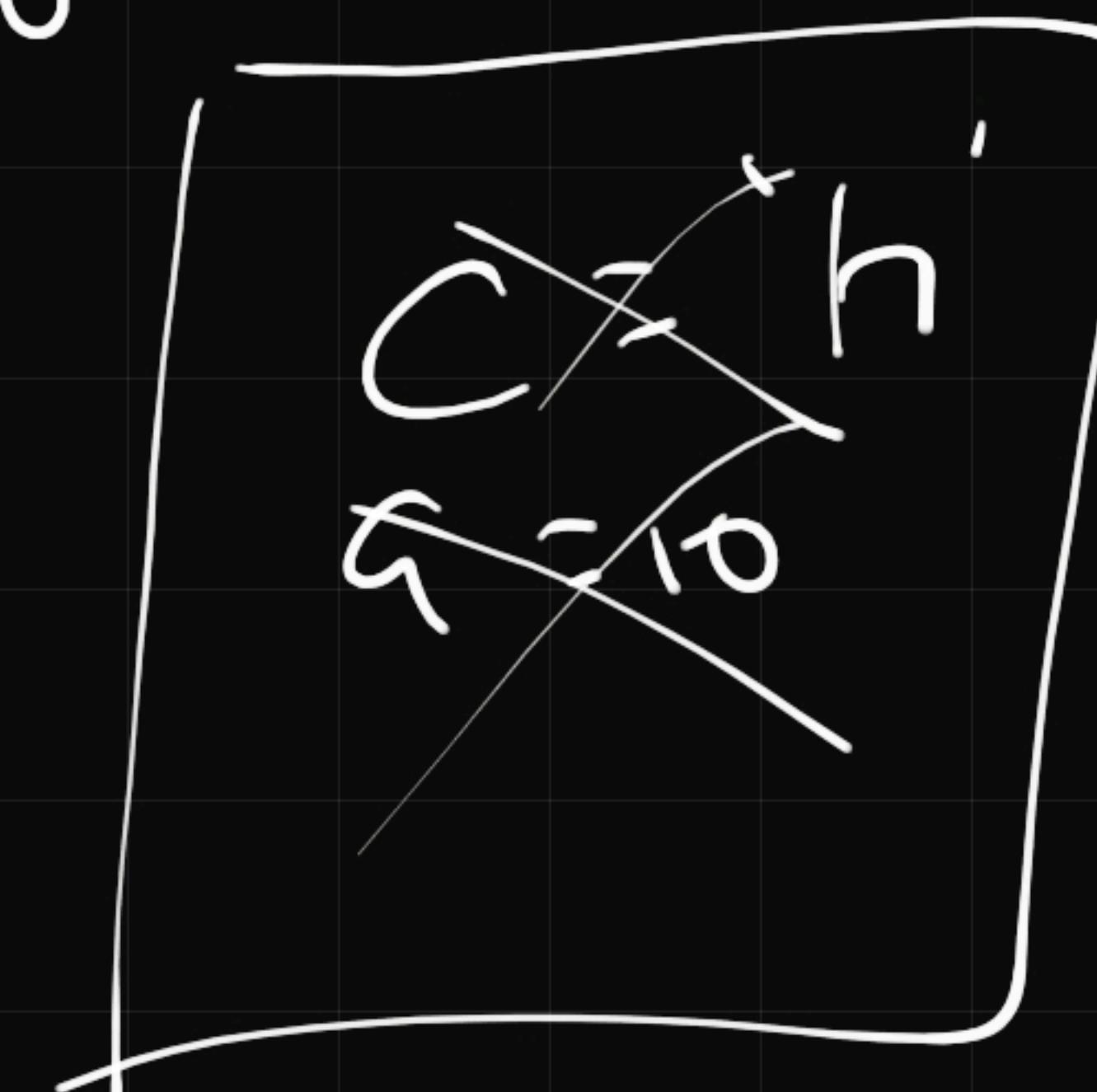
Char c;

$a2.a = 10$

$a2.c = h$

$a2.dx = 14.0283$

$a2.$    
"Overwrite"



(8 Bytes)