



Arrays & Pointers Part - III

Comprehensive Course on C- Programming

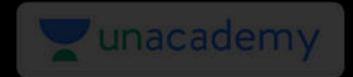


CS & IT Engineering

C Programming
Arrays & Pointers-III



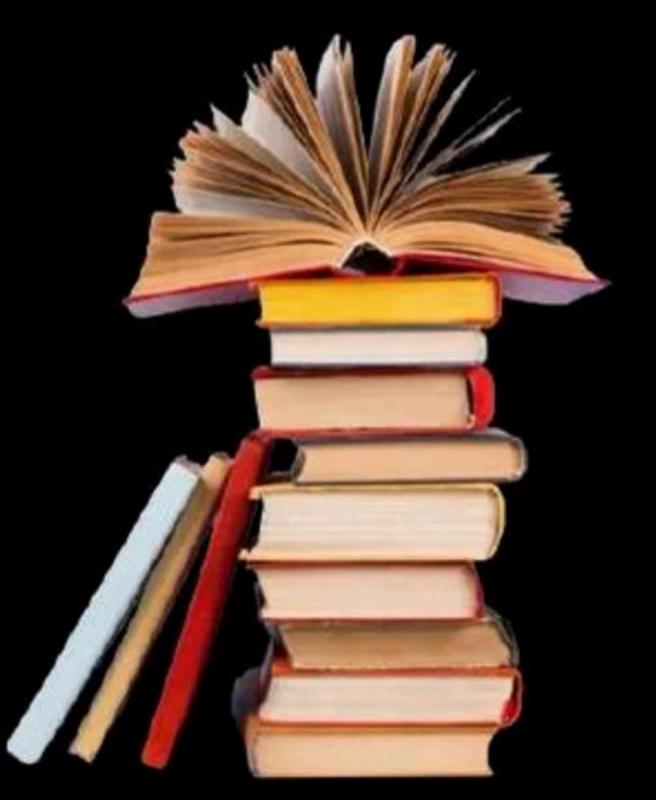
By- Pankaj Sir





Topics

to be covered

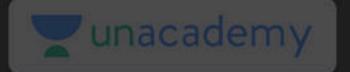


1 Arrays & Pointers Part-III

a = &a(6) Zunacademy Void main (1 { a(z)a [3] int a[4) = {10,20,30,46); printf(".1.4",a); 1401 36 160 buvtt(""", rd["); ao

Name of array does not represent an address with 2 oberators

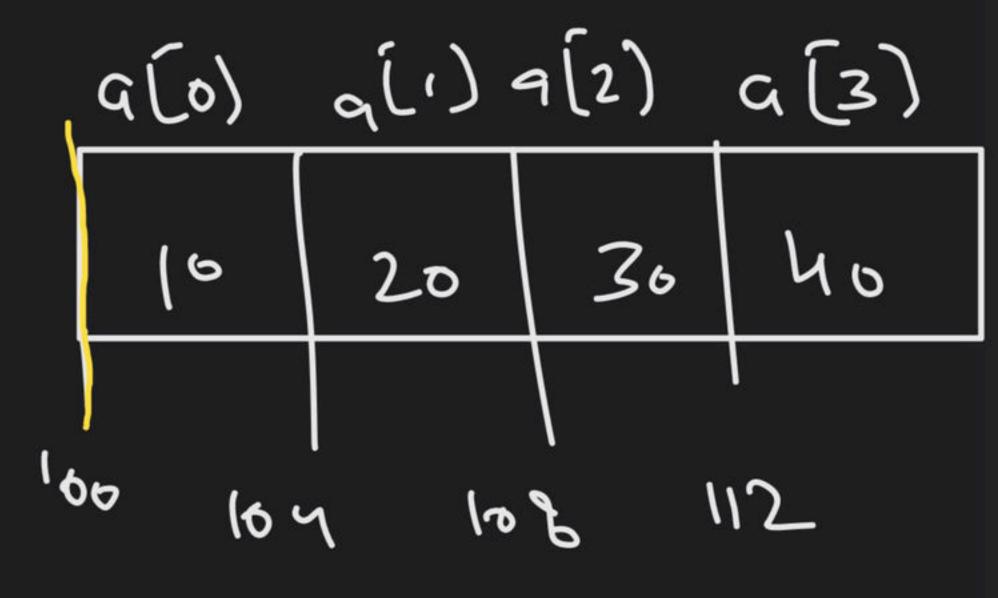
a) address of operator (f)
b) size of operator



int
$$a[4] = \{16, 26, 36, 46\};$$

$$Q = \{a[6]\}$$

$$2a + abres af$$
whole
$$array$$





int a[4) = {10,20,30,40};

printf ("-1.4", a1; 1000 30 20 Dintf ("./. ", La) ; >1000 40 Printf (". | " La(6)) 600 600 1604 1008 1612 Nominical value is P PATE

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Numerical valle of a is 100

a +1 5 Wight Straight int a= [60] Pf ("./.d" a+1); Valux + val - val (anth.)

what is a

a is address

pointer variable

address girthmetic.

add + Val = add

val + add => add

add + add => Imalid

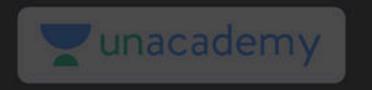
Ind deckration of array is having n-dimension

a) Ahywhere in program, a provide exactly n-dimension then it is an element.

b) Anywhere in program u provide less.

than h-dimension then it is = address.

int a[3][3][3]; 9[6) 9[6) 9[0)[1) 40Acker



a + 1

1) What is a? Avalue — A donce I address

2) Kiska address hai (whose address we are talking about, 3) Uska size kya haj (Find the size of that Object)

int a[4)= {10,20,30,40}; 36 9+1 (ii) Kiska? whose add. a - + array Ka haam > Add. of its linst element of address of als 111) siz of a[6) =>

 $n_{\xi} = \{ 16, 26, 36, 46 \};$ a(°) a(1) a(2) a(3) 106 20 36 40 29[0)+ 1×4 166 164 108 112 > 10014 = 1.4

int a[4) = {16,20,30,46}; (a(°) a(1) a(2) a(3) 100 20 36 40 100 104 108 112 a+2(i) a A gald. W ere X (!) a = la[0) 801=8+001 (C)+5XH iii 1 size of a[a) = 14 fd + 2 a+2 = (Memory 100-108) = La[z]

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$$\Upsilon(Q+1) = G[1)$$

 $\Upsilon(Q+1) = G[2)$

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Void main (){



Addition (* mmwative

$$a[i] = *(a+i)$$

$$= *(i+a)$$

$$= i[a]$$

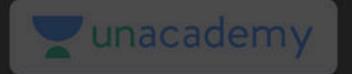
void main () { inf a(A) = {10,20,30,40}; phrtf ("./.d", a[2)); Phht ("-/d", * (9+2)); Brintf(".).d", "(2+a)); print("1.a", 2[9]);

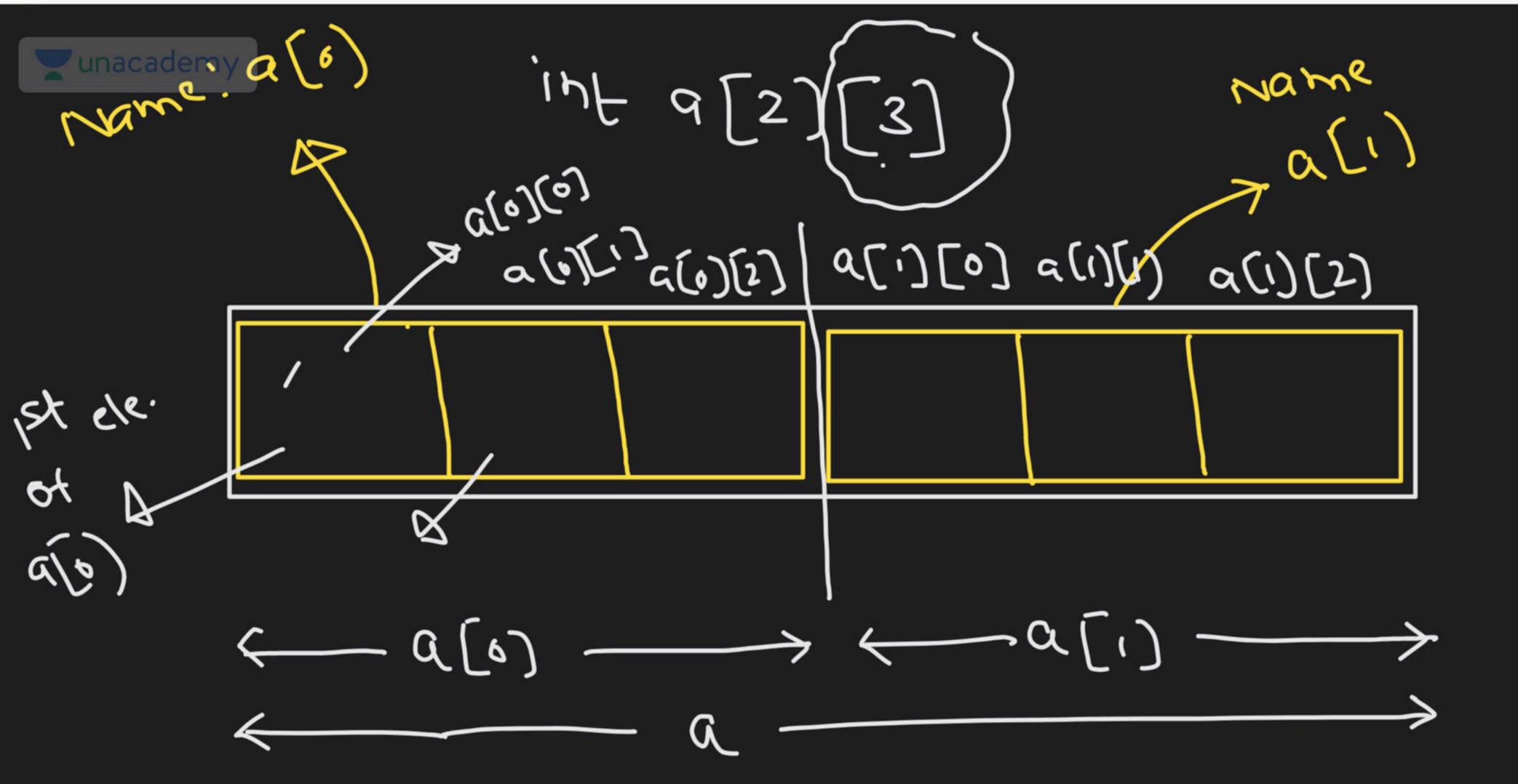
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declaration

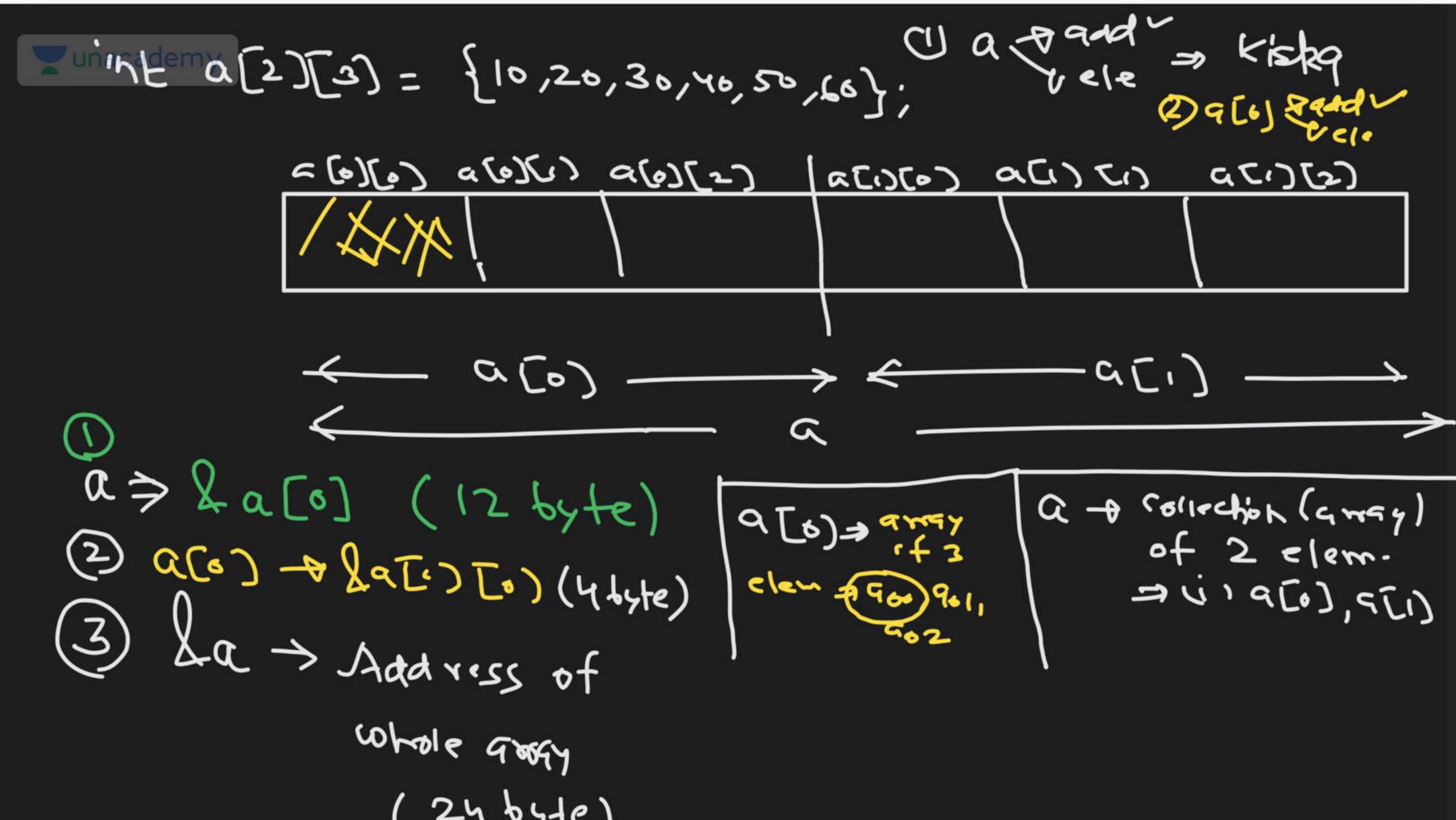
Compiler Six

a [6) a(1) a(2) a(3) a(4) void main(){ 10 20 30 40 50 int a[5) = {10,20,30,40,50}; of ("./. " a); and of while away > 1000 pf(r./.u", la); a +and + la[0] + 4 bytes pf("./.", a11); a+1 = &a(o) + 1 xy => 1000+ n= 1004 >f("1." la +1); (i) fa -> add. of whole array (266) te) pf ("./.", *(a+1)); * 4 5 11) = 20

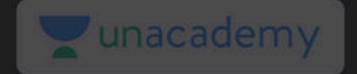


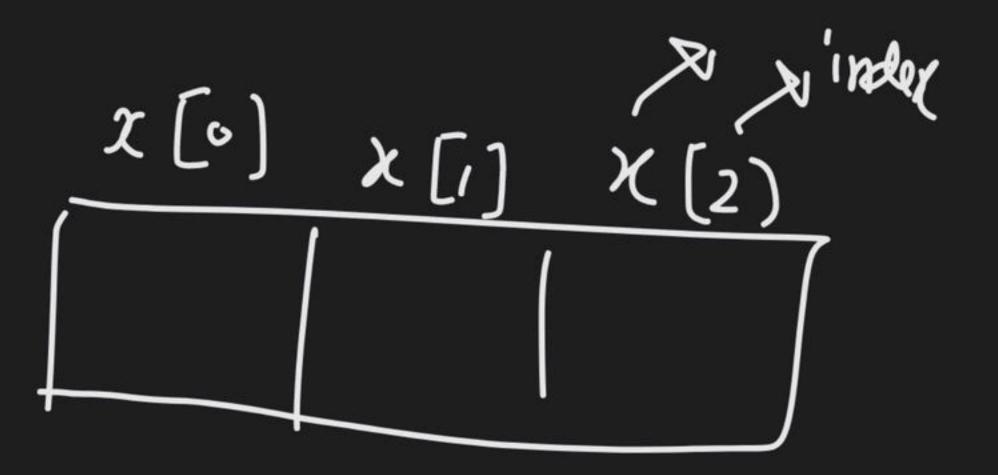


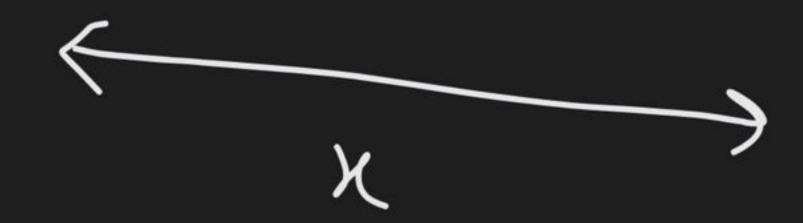
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(1) a : a (0)(2) くしいこう Df ("1.1"g) 106 (2) pf ("-1.",-a(s)) Vele x a[6) = 1 9 may of 3 elem (960) 901,962 Ff (".1.4" La); thousand addit















THANK YOU!

Here's to a cracking journey ahead!