



## Arrays & Pointers - Part XI

Comprehensive Course on C- Programming



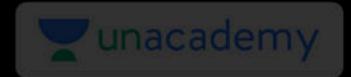
## CS & IT Engineering

C Programming

Arrays & Pointers-IX



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## Topics

to be covered

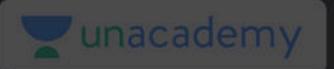


1 Arrays & Pointers-IX

— Which of the following are Anvalid (MSQ) int P[]: Tradid

Junalia

Junalia Only decl. × by only dec. \* 5 int b[2][][3] = {42,3,43; 9 wallid Initint p[][3] = {10,20,30,40}; Init 158 dim a, b, c



1) Only declaration (without 3 nitialization)

It is mandatory/compulsory to provide size of

each dimension.

(2) This is

2) Thitialization There is flexibility only for > 4 can omit the size of 1st dimension But this flexibility is only for 1st d'im.

int arr [4) = {10,20,30,40}; >rintf ("-/.d", \*arr++): > Error Array-namott int arr [4) = {10,20,30,40}; int \*Ptr = arr; pintf("./.a", \*ptr++); a) only P, Istonly Q c) Both Pand Q D) Neither P nor Q

int a(s)= {10,20,30}; Printf("-/-d" 4(a)); int (5(a)) = {10,20,30}; Error > hn+f("-/d" a[2)); et only P DI ONLY Q J Both DI Neither Phor Q

Int 
$$a[s] = \{10, 15, 20, 25, 30\};$$

$$printf("./.u", *(a+2)+6); \Rightarrow a[2)+1$$

$$printf("./.u", *(a+*(a+1)-12));$$

$$a[1]$$

$$a[1]$$

$$a[1]$$

$$a[1]$$

$$a[3] \Rightarrow a[3]$$

int  $a(s) = \{ s, 3, 1, 2, 4\};$ int \* [[5] = { a, a+1, a+3, 9+2, a+4}; printf("-1.u ·/·u", P[3][1], \* (\*(P+u)-2)); \* (P[3)+1) \*(la[2)+1) -> / La[3) => C[3)

int  $a(s) = \{ s, 3, 1, 2, 4\};$ int \* [[5] = { a, a+1, a+3, 9+2, a+4}; printf("-1.u ·/·u", P[3][1], \* (\*(P+u)-2)); \* (P[4)-2) 4 ( fa [4) -2) 7 La[2] => a[2)=(1)

$$a[i][j] \Rightarrow *(a[i]+j)$$
 $P[3][i] \Rightarrow *(P[3]+i)$ 
 $*(4q[2]+i)$ 
 $*(4q[2]+i)$ 
 $*(4q[3])$ 
 $*(4q[3])$ 

\* 
$$(2)$$
  $\Rightarrow 5$   $\Rightarrow 6$   $\Rightarrow$ 

 $9 \text{ inf} \quad a(s) = \{s,3,1,2,4\};$ int \*P[s] = { 9+3, 9+1, 9, 9+2, 0+4}; \*/ (P(3) int = P+3; pf ("-1.u.1.u", PEr-p, \*PEr-a, \* \*PEr), \* La[2) 4P[3)- LP[0) P[3)-a La[2)-la[0)

Void func (int (\*Ptv) [2)) \*\* PEx+=1; >> \*\*\* PEx+1 bfitt. 241(1)(1) = 24 [1)(1) 41 \*\* P Ex = 3; x \$ Larr [o) void main() { int axx [2)[2) = {0,1,2,3}; \* arr [1) \* 29ゃし・)し。) func (arr); > Lanci) pf("./.a" q[o)[o) a (o)[i));}

Void func (int (\*Ptv)[2)) \*\* アヒャナニ1; NFX++; >> PFx = PFx +1 \*\* Pky = 3; = lan(1)+1 = lang[1) void main(){ \*\*\* PLY = PLY \* 3 int arr [2)[2) = {0,1,2,3}; \* / Karr (1) = " Tllan (1) 23 func (arr); > Lanci) 4 Kan [1)(s) = \* (an [1)(s)\* pf("./.a" q[s)[], a[s)[]);} 9 m (1) (0) = m (1) (1) 2

Assume

int a = 5, 6 = 10, C=15; int \*P[3) = { la, lb, lc}; Pf ("-/-d", \*P["]-8]); \*P [ \* 1 - 8 ] (15) \* P[b-8] >

50 Questions data types & Operators TP[10-8)
TP[2]) = #/(C







## THANK YOU!

Here's to a cracking journey ahead!