CS & IT ENGINEERING



C Programming

Arrays and Pointers

Lec - 05

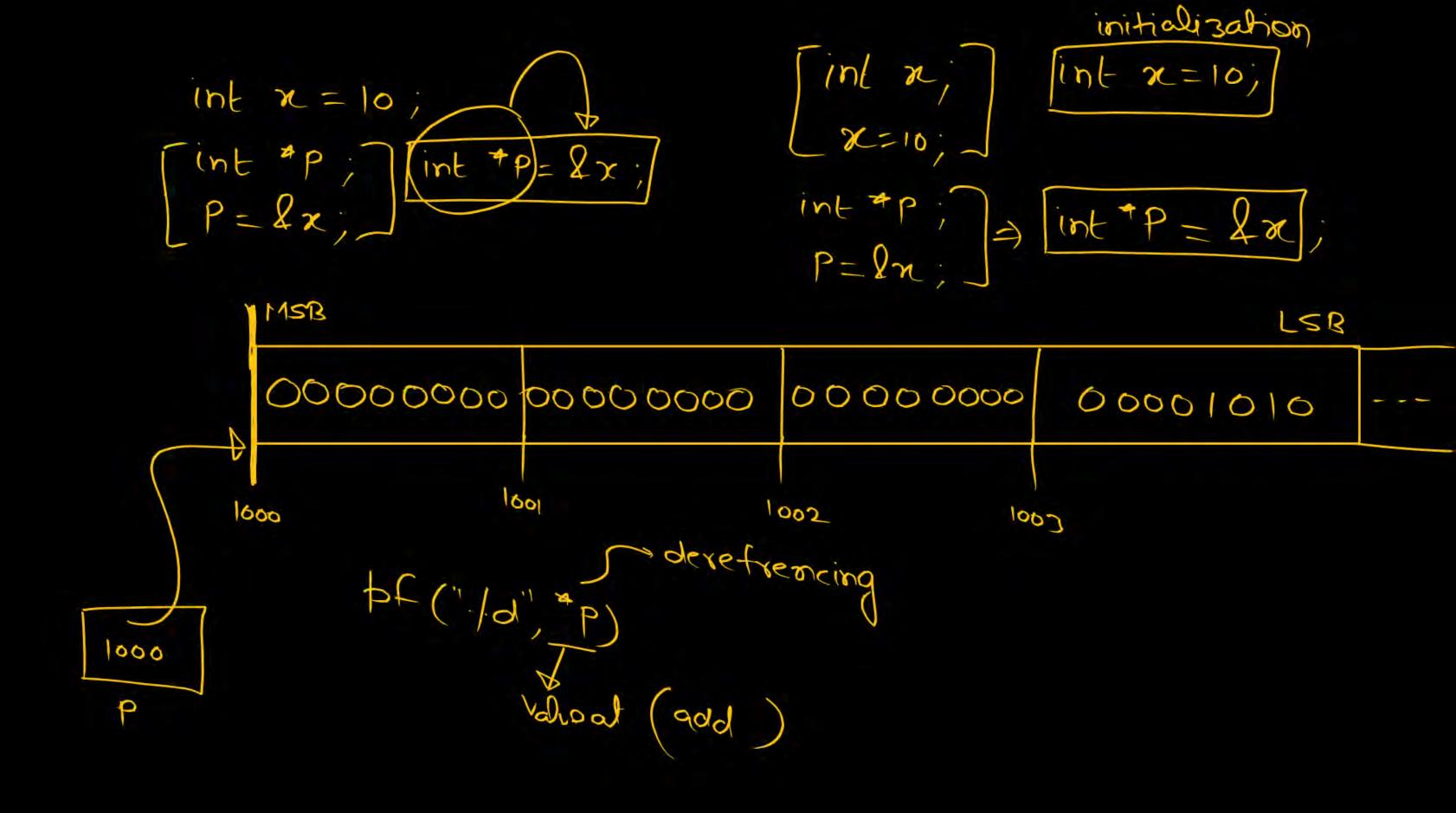


By-Pankaj Sharma Sir

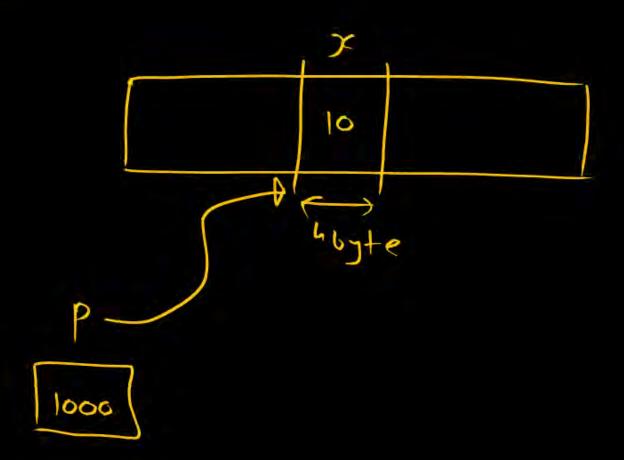


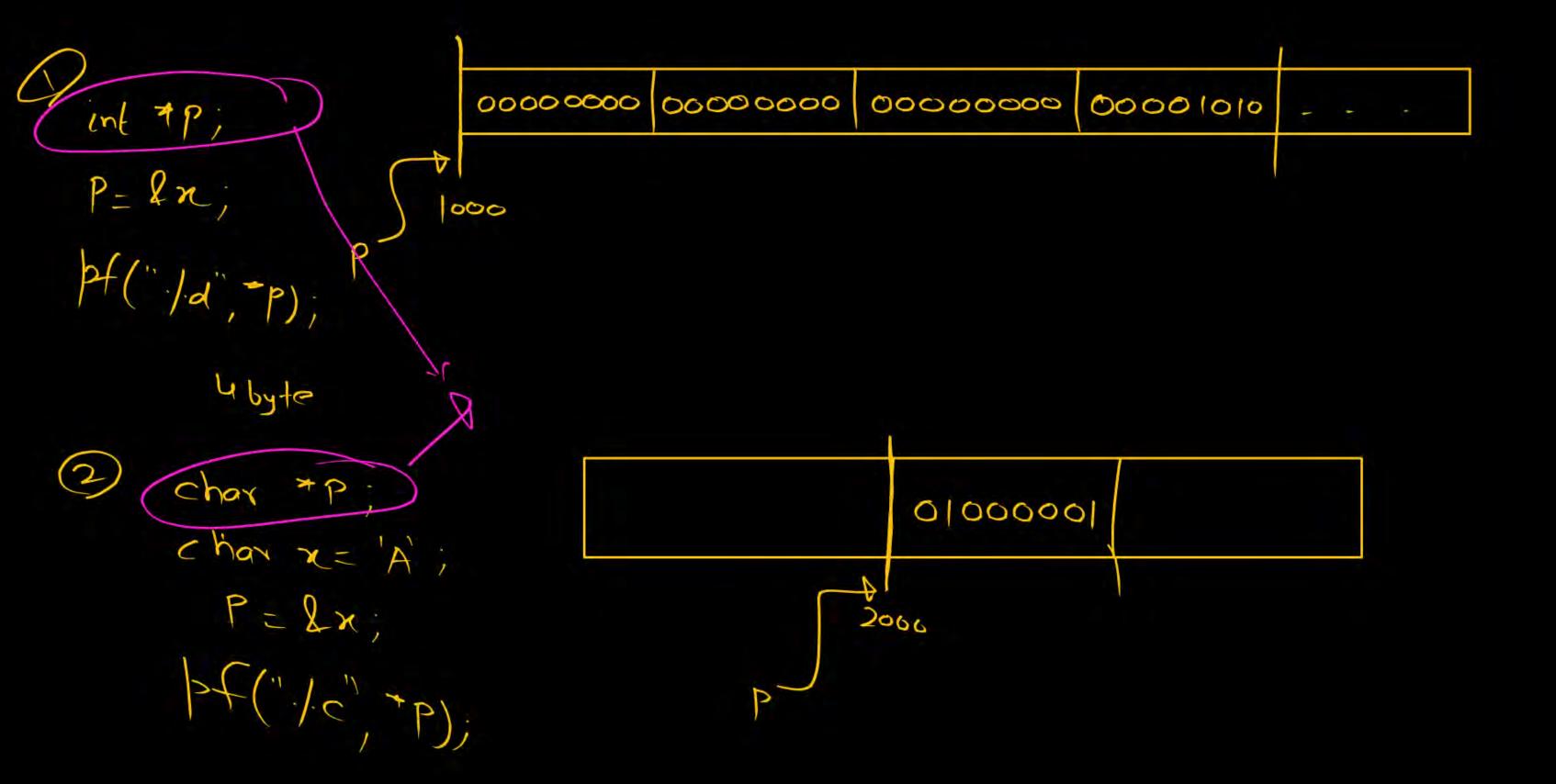
TOPICS TO BE COVERED

Arrays and Pointers (Part- 05)



int x=10; int *P;



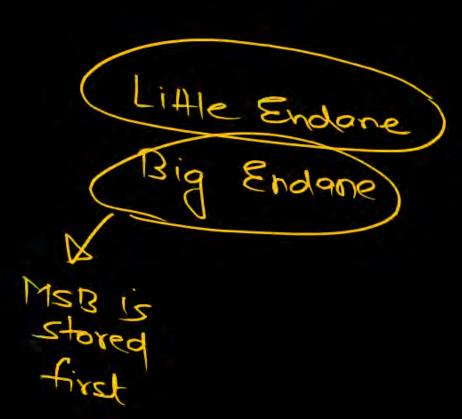


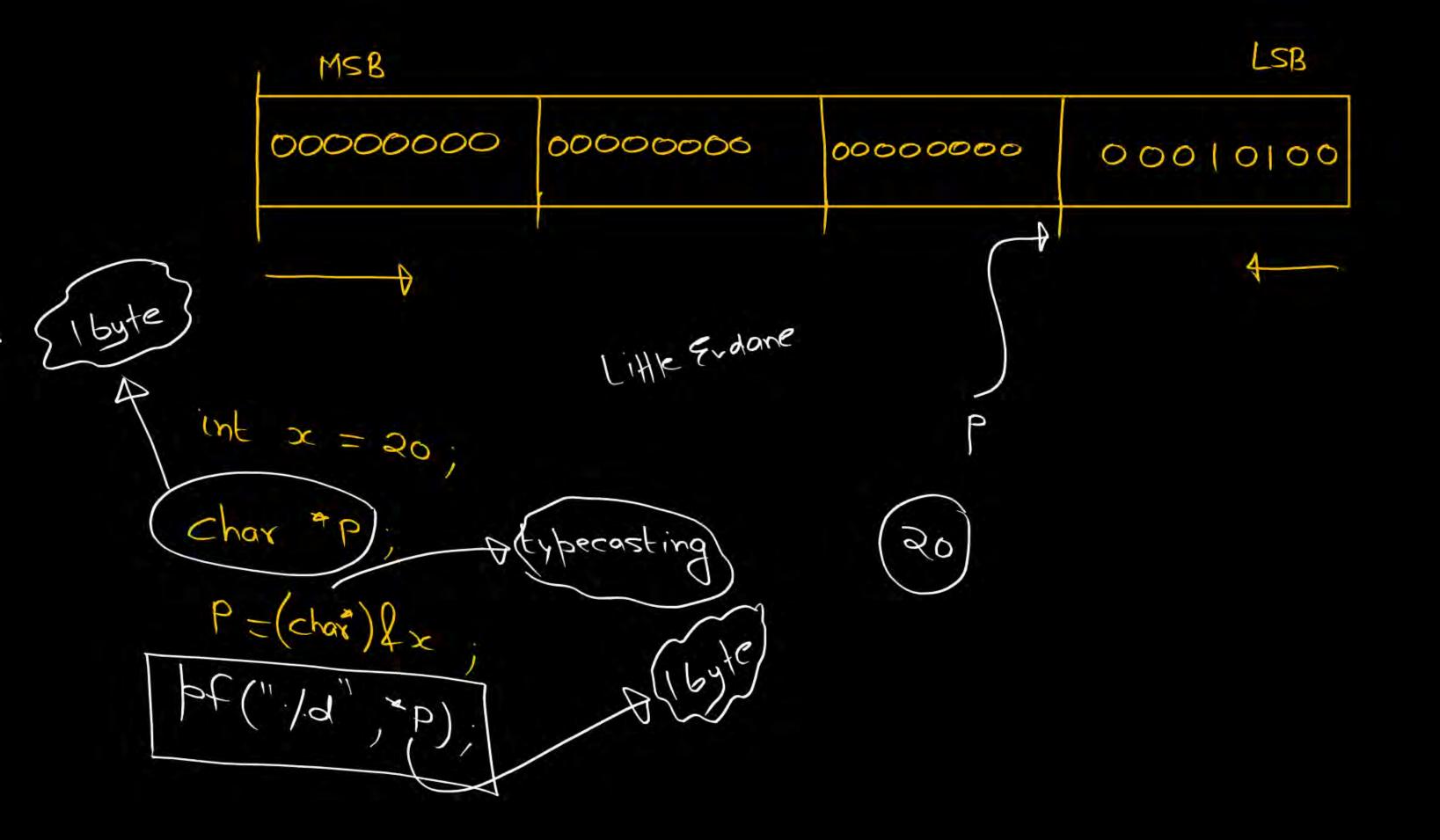
int +p; JAP->4 byte int abyte Charta; a -1 byte char-16yte 2BHK flook >8 byte float Tr. r->8 byle av BHK 4BHK



MSB

int
$$x = 20$$
;
int *p = $4x$;

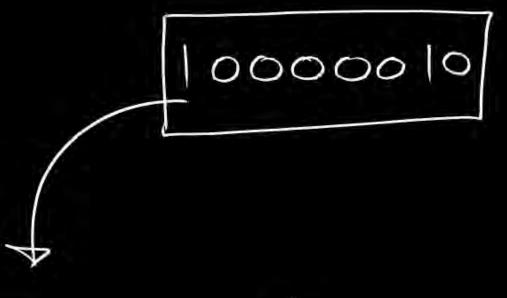




256 328 4

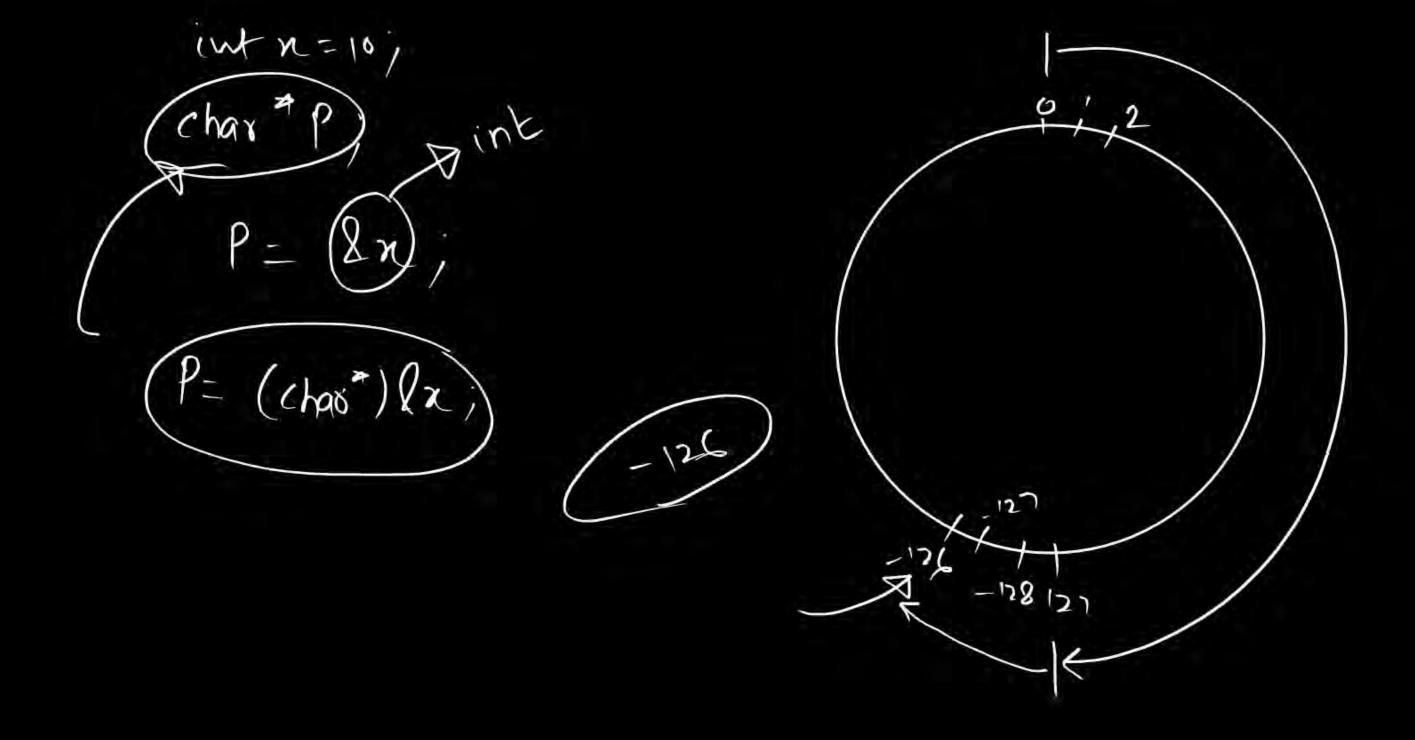
0000000	00000000	0000000	00101100
		P	44

int
$$x = 130$$
;
char p ;
 $P = (chai +) & x$;
 $pf(".l.d", p)$;
 $p = (chai +) & x$;
 $p = (chai +) & x$;

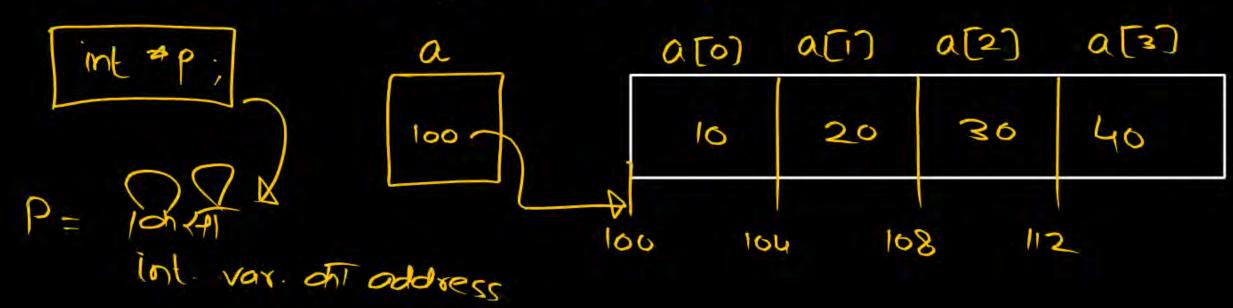


2/s comp form

384 int x = 400; 00 0000 722222222 char +P; = -2-25-23-2-2-1 P= (char >) lx; = -64-32-8-4-2-1-1 bf ("/d", p); Web = -96-16 = (-112) 0000 0000 00000000 10000000 0010000



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

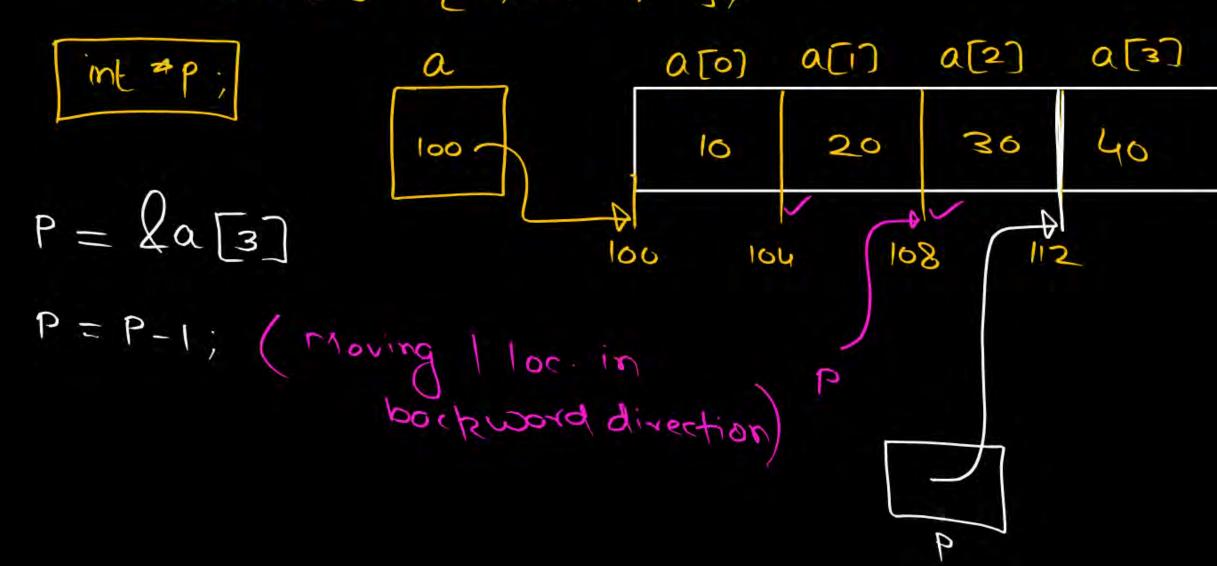


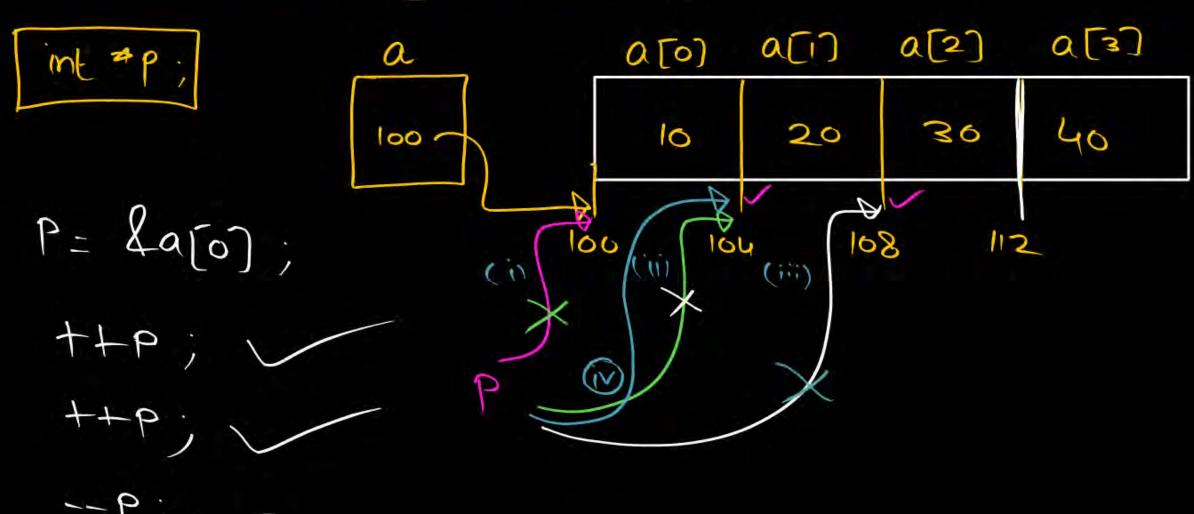
int
$$a[4] = \{10,20,30,40\};$$
 $[mt *p;]$
 a
 100
 10
 20
 30
 40
 $P = \{a[0];$
 p
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100
 100

int
$$a[4] = \{10, 20, 30, 40\}$$
;

 $[mt *P]$
 a
 $a[0] = \{10, 20, 30, 40\}$;

 $a[0] = \{$





National formers

a void moint
$$1$$
 [100]

int $a[u] = \{10, 20, 30, 40\}$,

int $*p$;

 $P = a \text{ or } P = 2a[0]$;

 $V = a \text{ or } P = 2a[0]$;

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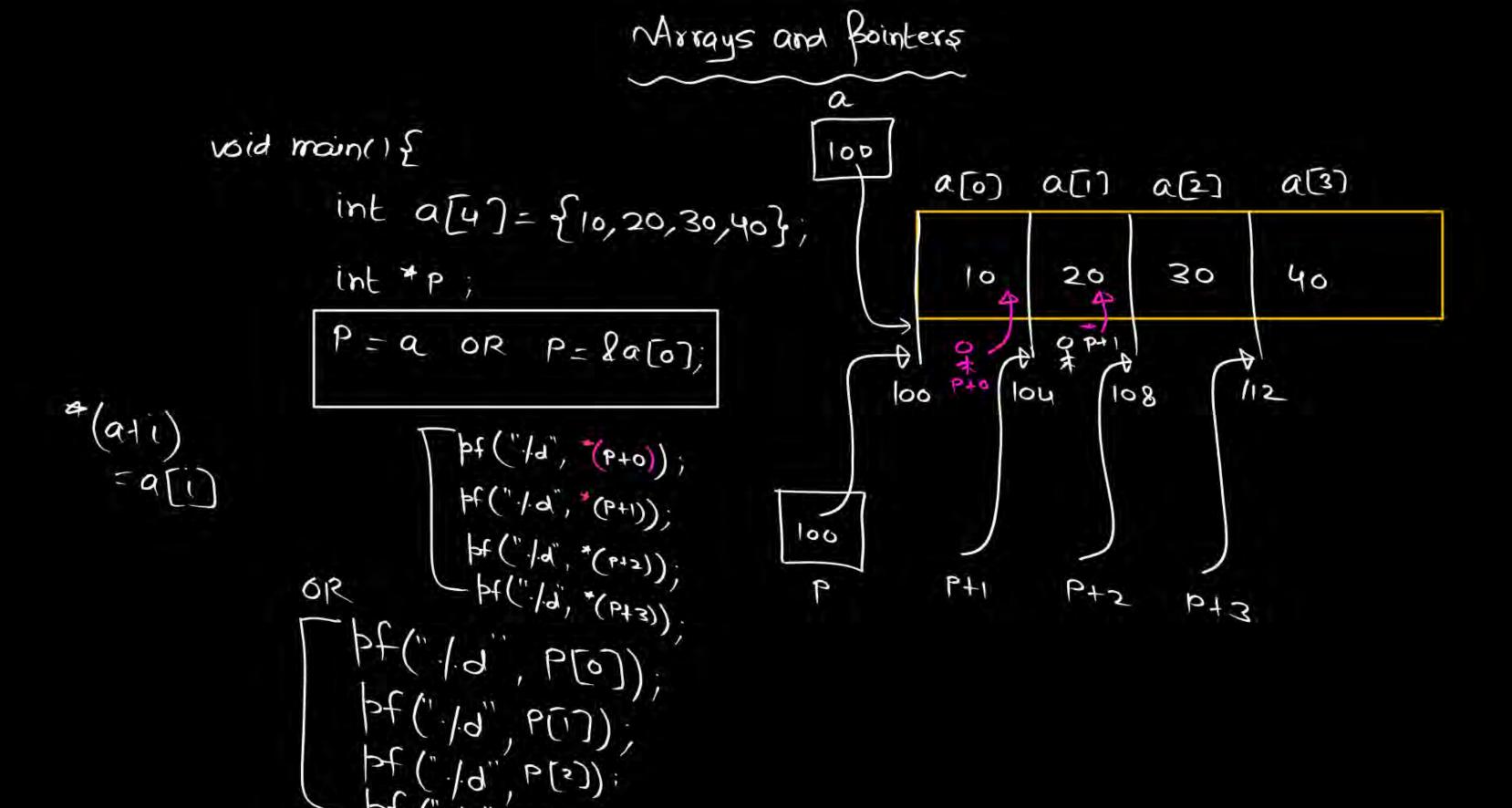
 $V = a \text{ or } P = 2a[0]$;

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 $V = a \text{ or } P = 2a[0]$;



Marrays and a void main() { 100 a(3) a[0) ali a[2] int a[4] = {10,20,30,40}; 30 int *P; 40 0 20 P = a OR P = 2a[0]; pf("/d", P[0]); 100 149 b+3

what is P

bt (, \9, \b[s]);
bt (, \9, \b[s]);
bt (, \9, \b[s]);
bt (, \9, \b[s]);

int
$$a[y] = \{10, 20, 30, 40\};$$
 $a+4$;
 $a++$;
 $a-a$;
 $a--$;

(2) Int
$$a[u] = \{10,20,30,40\}$$
;
Gray name $a = \{30,40\}$; Invalid
Value

A-104 Krishra raggr Pointer-var ++ Krishna Nagar Mathura Pointer-var --Agra ++ Pointer-var -- Pointer-var Pointer-vor + 3 => Moving 3 location in forward direction Pointer-vor-3 => 1 1 1 backward 1) difference

