



Miscellaneous Chapter 07 Lec- 01



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Scoping Static Dynamic scoping Scoping lexical scoping

Consider the program in a hypothetical lang. Hat allow global var & a choice of static & dynamic scoping.

LaTex M Lisp

```
int i;

Program main() { i = 10;

Call f();
```

Proceduse f() { int i = 20; call q();

Procedure 9() & Print i; }

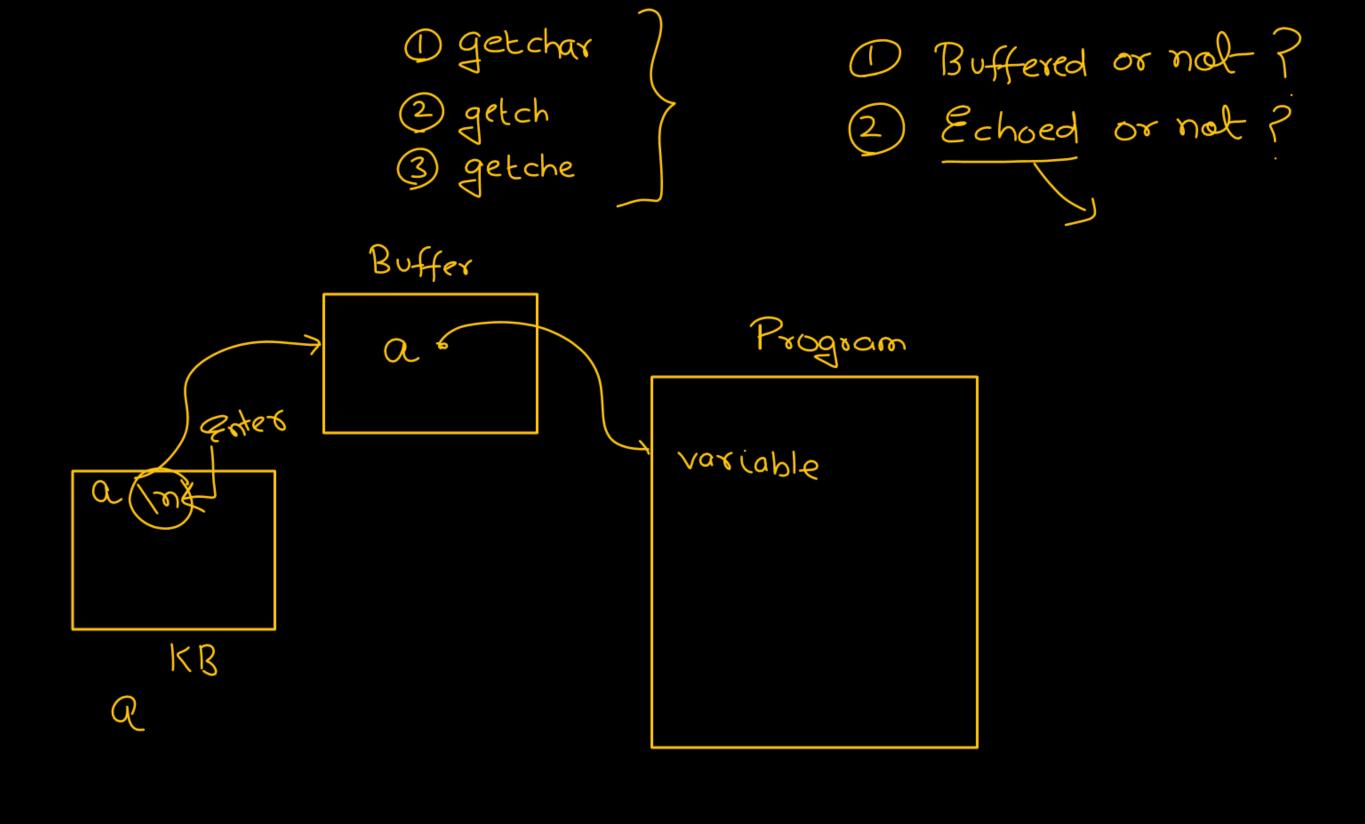
let x value printed under static
scoping
y value printed under
cynamic scoping

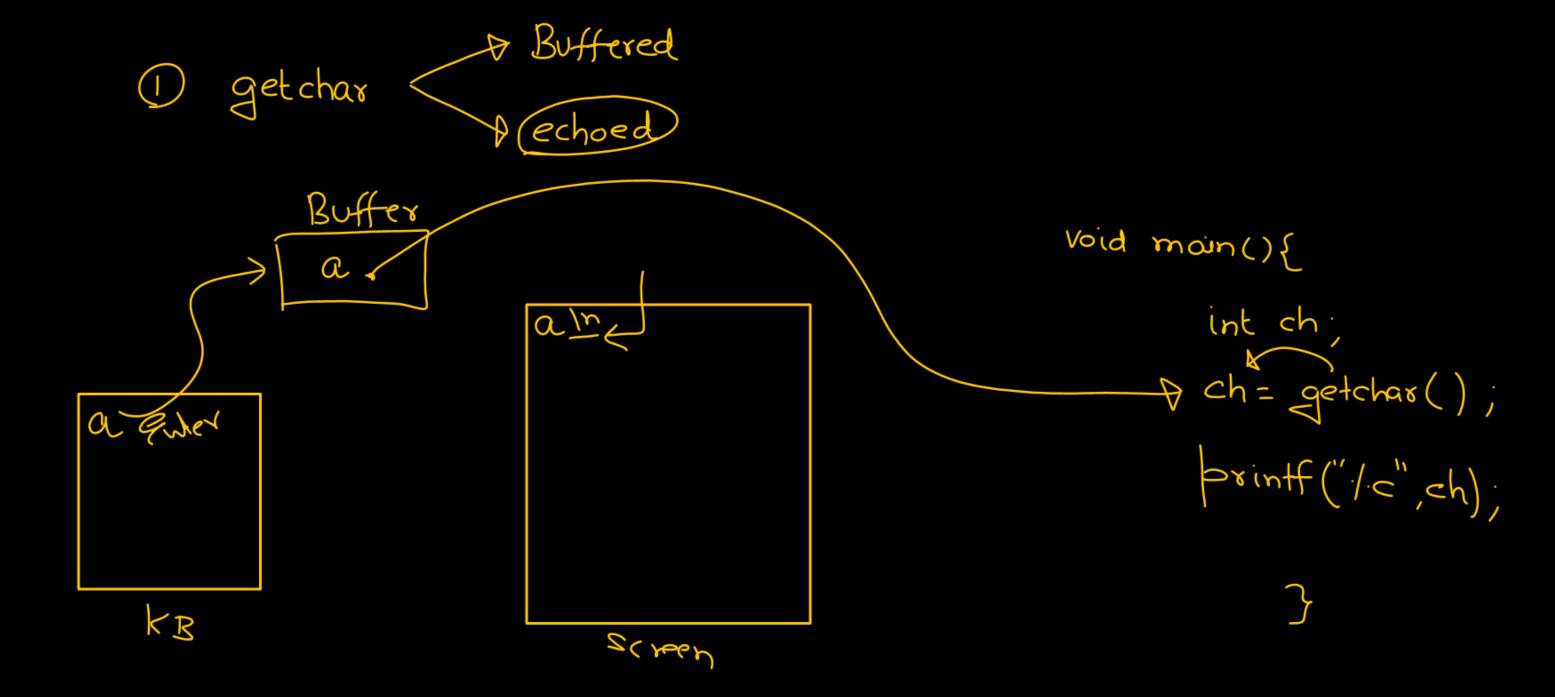
main() 20 Dynamic = 20

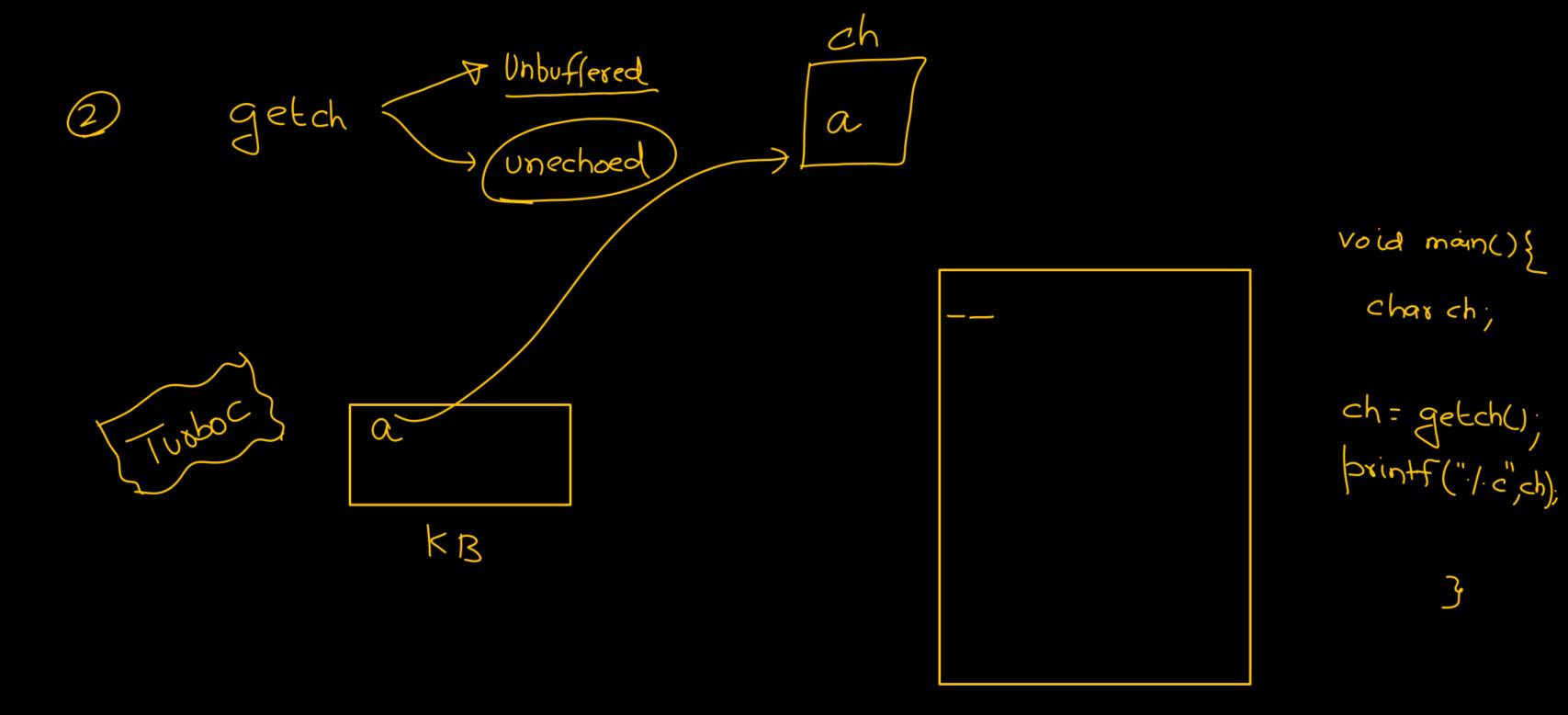
int i; Program main(){ i=10; Call f(); Proceduse f() { int i = 20; Call 9(); Procedure 9() { Print 1

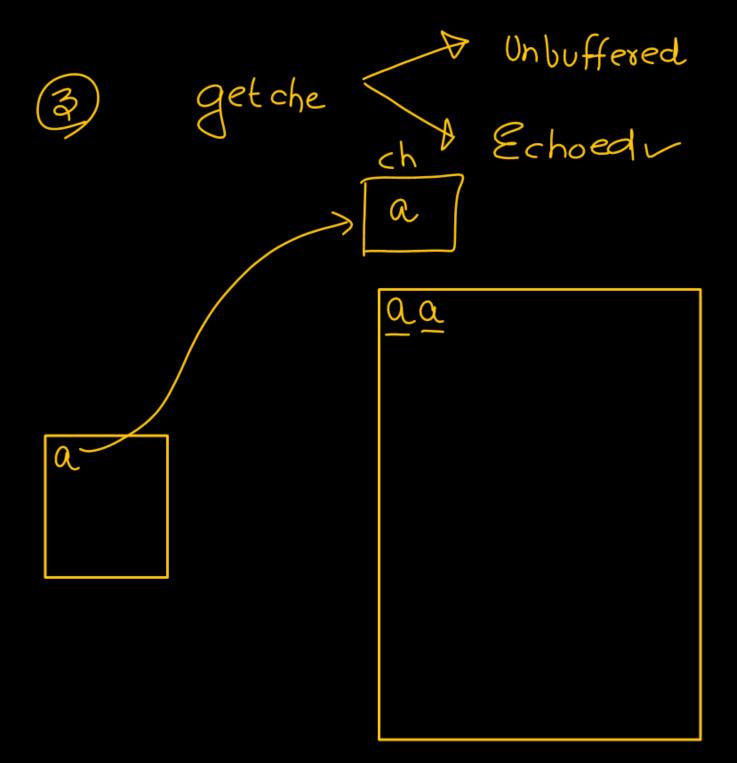
let x value printed under static
scoping
y value printed under
cynamic scoping

int i; Øb Program main(){ main i = 10; Call f(); 20 Proceduse f() { int i = 20; call g(); Static scoping Procedure 9() { Print x= 10









```
void main(){
    Char ch;
ch = getche();
>rintf("./.c", ch);
```

1) Works as seperator.

int
$$a = 5, b = 4, c = 6;$$

OR

2) Works as an oberator.

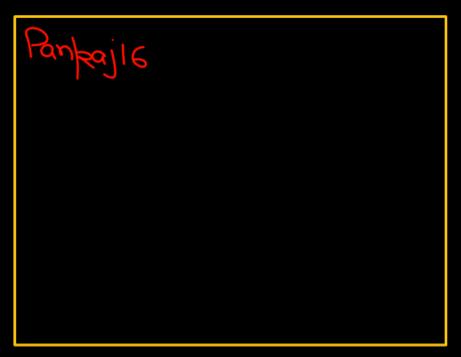
int a;

$$a = (3, 4, 5)$$
;

$$Var = (Exp1, Exp2, Exp3, - - - Expn);$$

Evaluates all these expressions from left to right and the final value is rightmost expression value.

int a;
$$a = (3,45)$$
;



0/p :

int a;
$$\alpha = 3, 4, 5;$$

$$priority$$

$$\alpha = 3, 4, 5;$$

3,4,5;

void main(){ int i = 10; x : printf ("/d", i); i = i + i; - goto x ; #define Max 20 # include <statioh> void main() { void main() { int i; Pre proce. int i; i = Max + 3;1-20+3; >rintf("/d",i); printf ("/d",i);

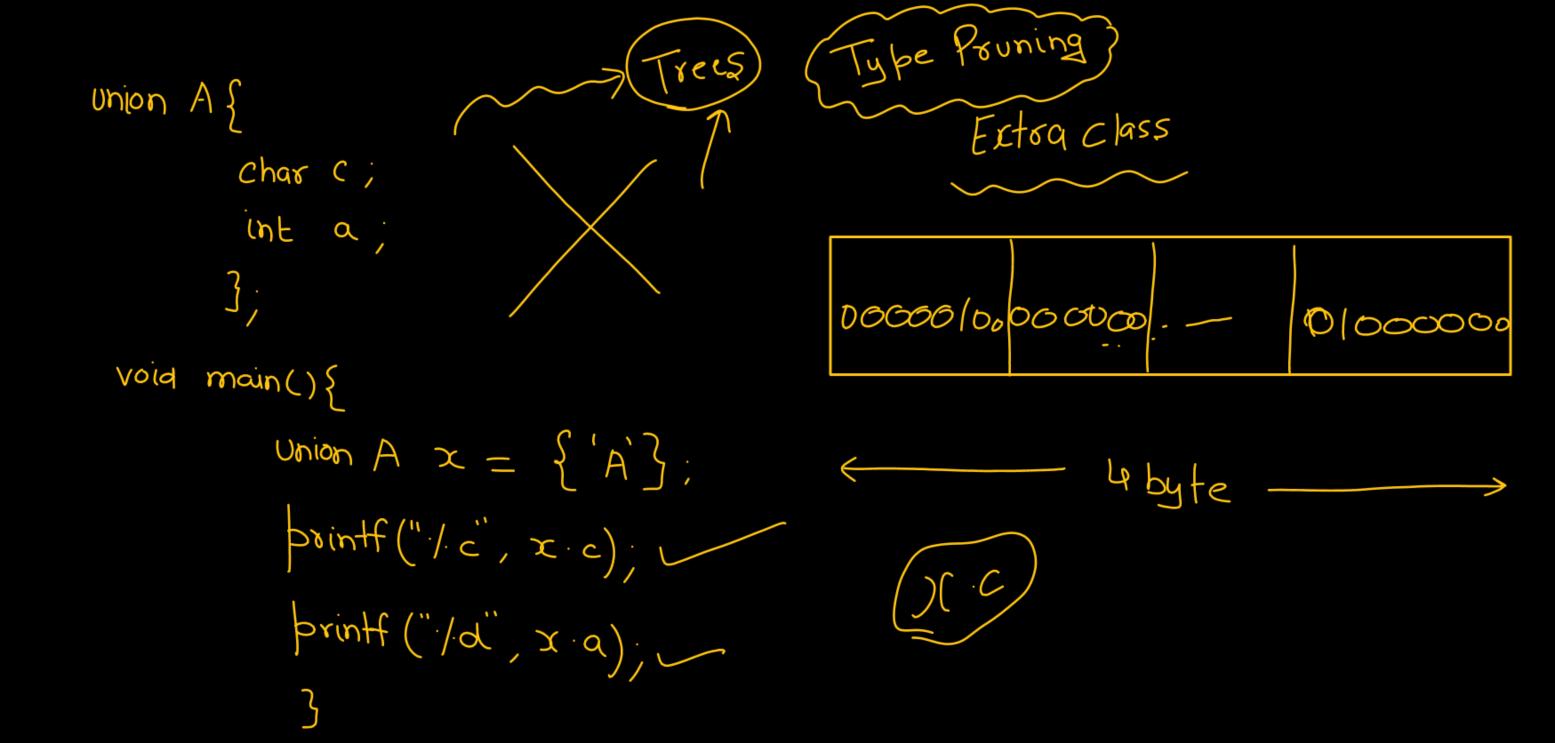
```
#define square(x) x x x
 void main(){
          int i;
          i = square (5+2);
          printf ("/d",i),
```

void main() { int i; i= 5+2 x 5+2 > rint("/d", i); 5+10+2

Struct A{ int i; >> 4 byte

charc; >> 1 byte struct B { char c; int a; — 4 float b; -4

```
Union A {
      charc; I
int i; 4
void main(15
                             max (1,4)
   union A a;
  brintf ("/d", sizeof (a));
```



l-eedback

DS



