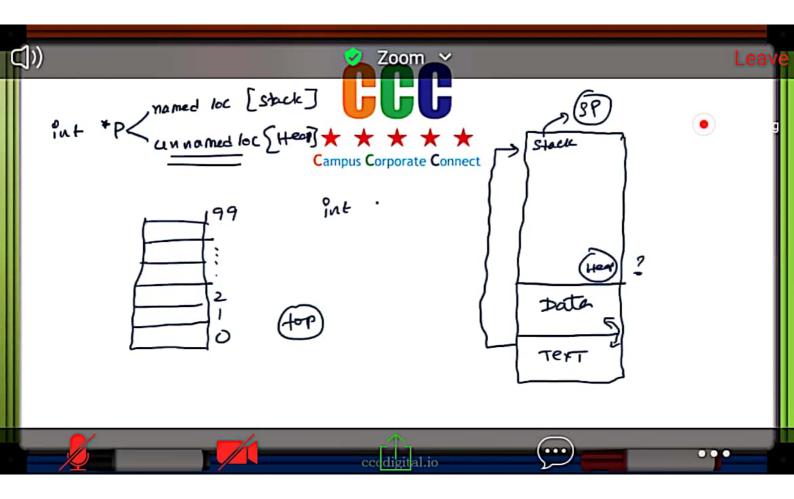
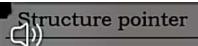
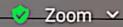
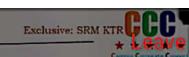


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The structure pointer operator -> is used to access members of a structure via a pointer.

-> is typed on the keyboard as a minus sign followed by a greater than sign.

If a pointer variable is assigned the address of a structure, then a member of the structure can be accessed by:

pointer-to-structure -> member_name

An equivalent construct is:

 $(*pointer_to_structure).member_name$

Examples of the Two Accessing Modes Zoom Zoom



Declarations and Assignments

ę,

struct student temp, *p = &temp; >> temp.grade = 'A'; temp.last_name = "Superman"; temp.student_id = 51;

<u>Expression</u> <u>Equivalent Expression</u> <u>Conceptual Value</u>

 $\begin{array}{lll} temp.grade & p \rightarrow grade & A \\ temp.last_name & p \rightarrow last_name & Superman \end{array}$

temp.student_id p -> student_id 51 (*p).student_id p -> student_id 51

Examples of the Two Accessing Modes Zoom



Declarations and Assignments

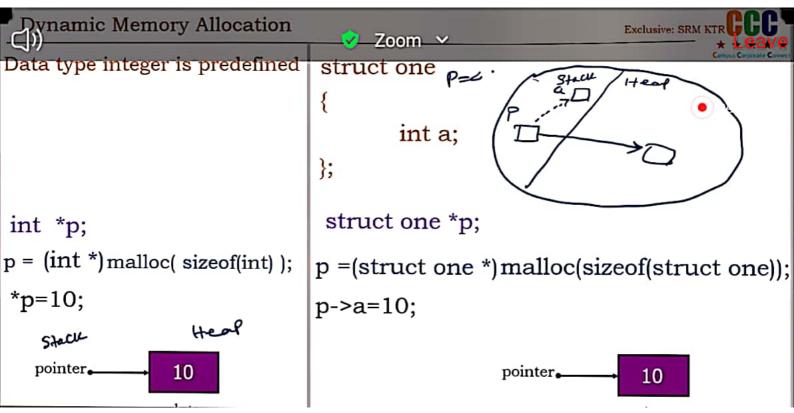
int a, * p = & a;

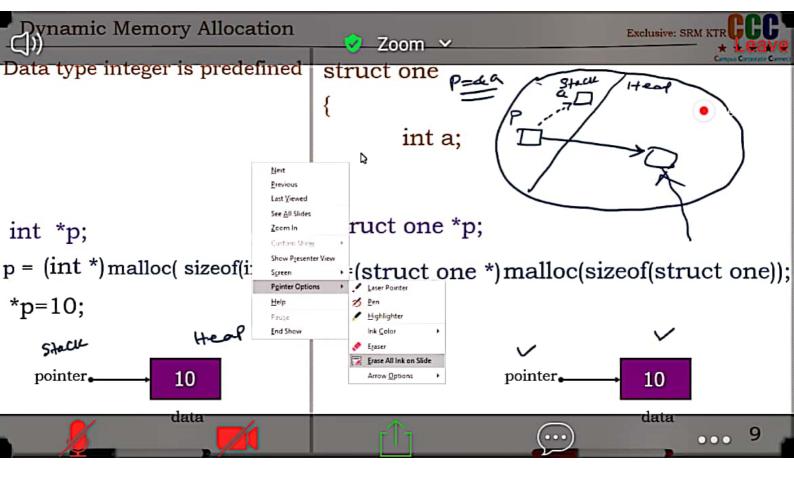
struct student temp, *p = &temp; > temp.grade = 'A'; temp.last_name = "Superman"; temp.student_id = 51;

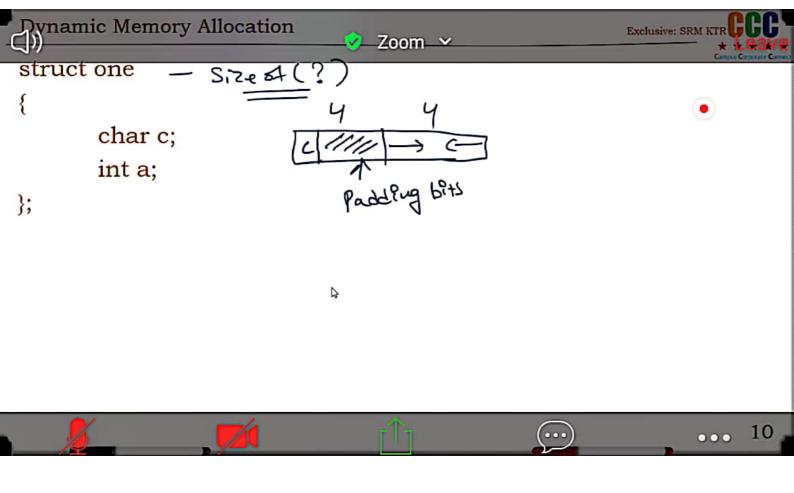
Expression	Equivalent Expression	Conceptual Value

temp.grade $p \rightarrow grade$ Atemp.last_name $p \rightarrow last_name$ Supermantemp.student_id $p \rightarrow student_id$ 51(*p).student_id $p \rightarrow student_id$ 51

```
Data type integer is predefined struct one {
    int a;
    p = (int *) malloc( sizeof(int) );
    p = (struct one *) malloc(sizeof(struct one));
```







```
#include <stdio.h>

struct one

{
    char c;
    char a;
    int b;

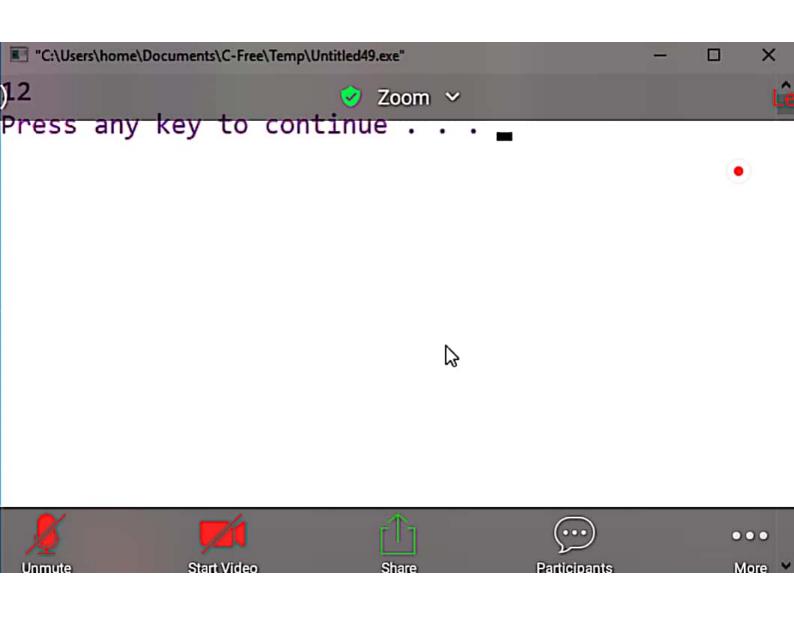
}x;

int main()

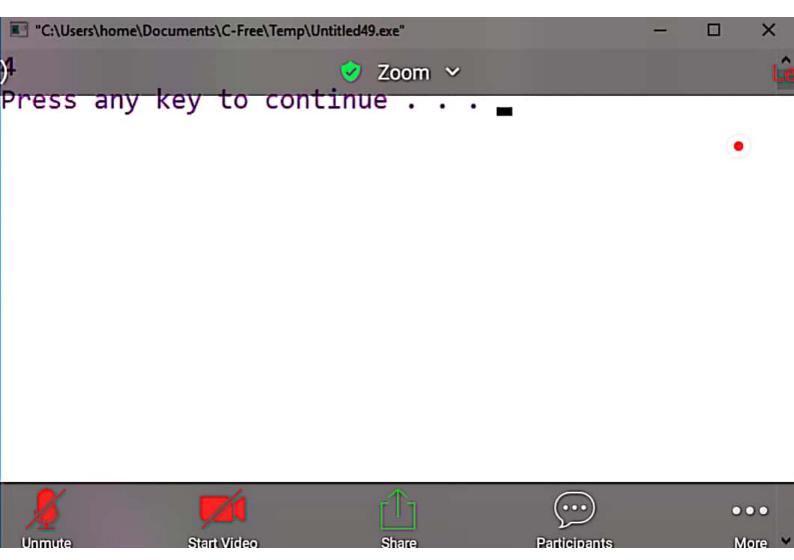
formation of the printf("%d\n", sizeof(x));
    return 0:

printf("%d\n", sizeof(x));
    return 0:
```





0 error(s), 0 warning(s)
Documents\C-Free\Temp\Untitled49.exe



```
#include <stdio.h>

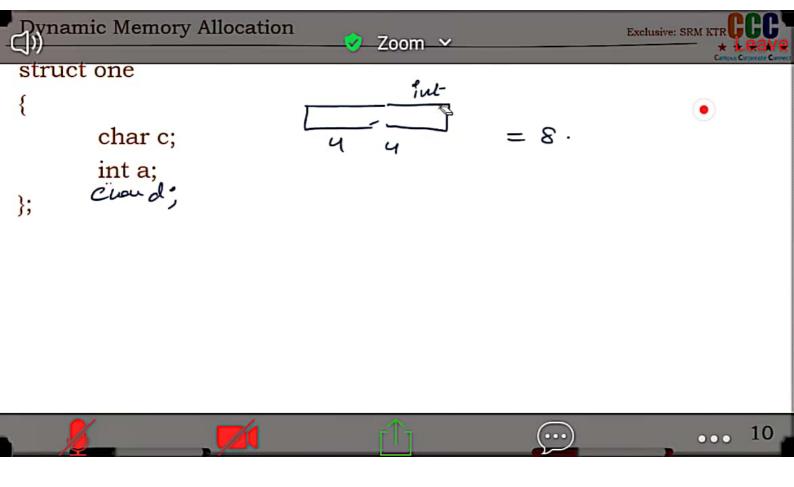
#include <stdio.h>

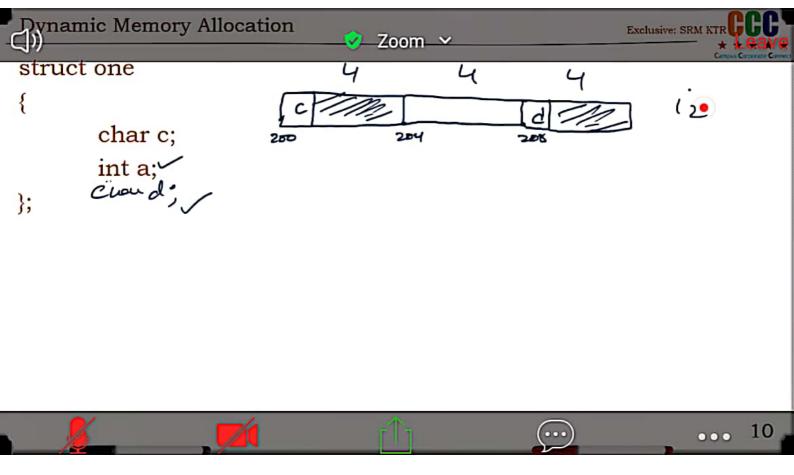
union one

{
     char a;
     int b;
     char c;
     *) x;

printf("%d\n", sizeof(x));

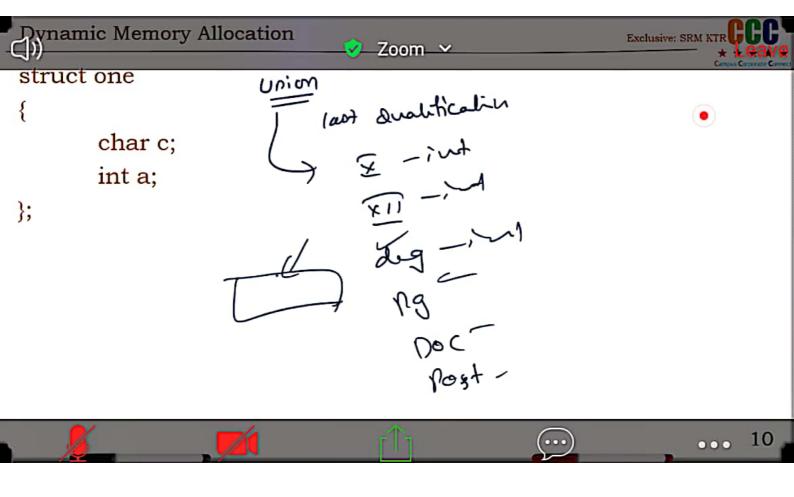
return 0;
```

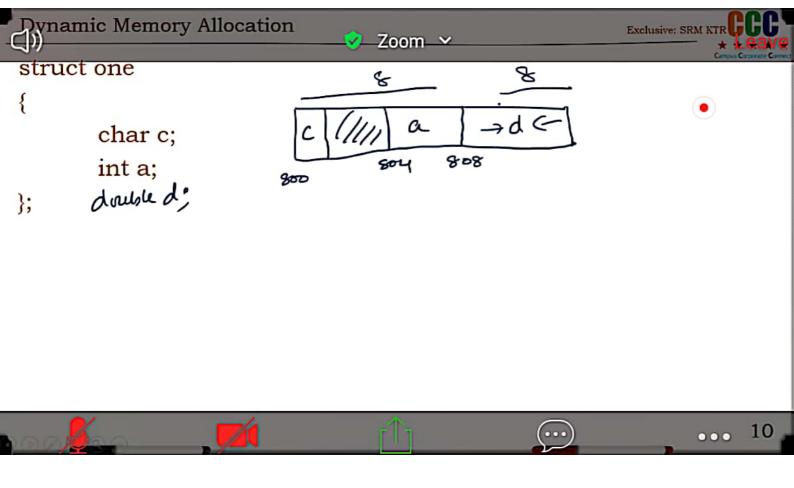


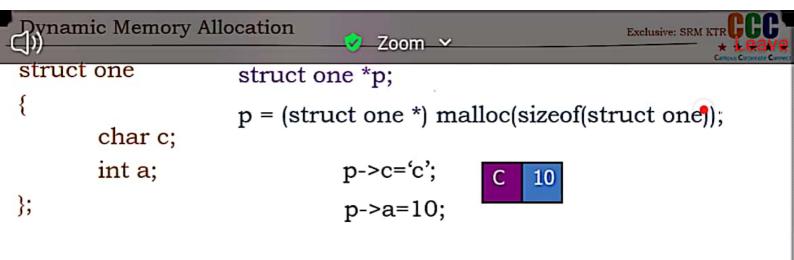


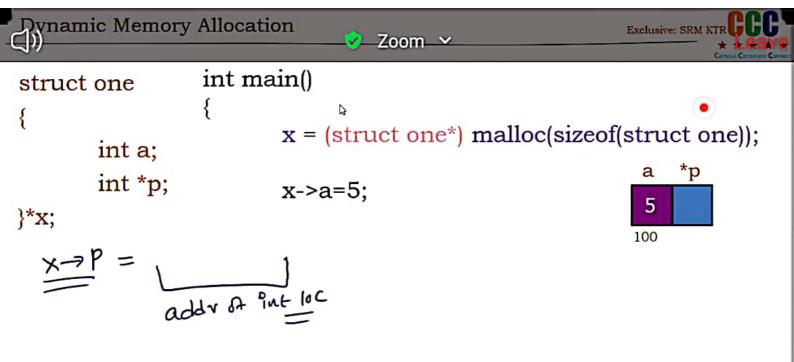


... 10

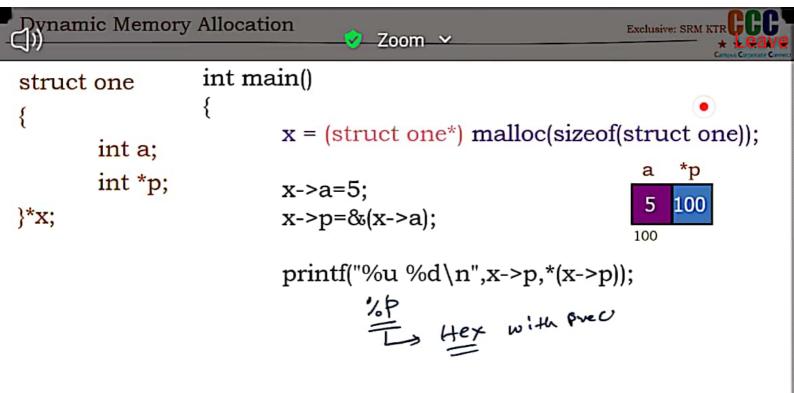








••• 11



```
struct one int main()
{

int a;

int *p;

x->a=5;

x->p=&(x->a);

printf("%u %d\n",x->p,*(x->p));
```

