

Presented By: Mostafa Saqly C Pointer





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- C Pointers
- Relationship Between Arrays and Pointers
- C Pass Addresses and Pointers





- Pointers are powerful features of C and C++ programming. Before we learn pointers, let's learn about addresses in C programming.
- Pointers is a variable the content is the address of another location in memory.





Address in C

- If you have a variable var in your program, &var will give you its address in the memory.
- We have used address numerous times while using the scanf() function.
- scanf("%d", &var);





Pointer Syntax

Here is how we can declare pointers.

int* p;

Here, we have declared a pointer p of int type.

- You can also declare pointers in these ways.
- int *p1; int * p2;





Pointer Syntax

Let's take another example of declaring pointers.

- int* p1, p2;
- Here, we have declared a pointer p1 and a normal variable p2.

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Relationship Between Arrays and Pointers

Relationship Between Arrays and Pointers

 An array is a block of sequential data. Let's write a program to print addresses of array elements.







- In C programming, it is also possible to pass addresses as arguments to functions.
- To accept these addresses in the function definition, we can use pointers. It's because pointers are used to store addresses.





Thanks!

Any questions?

