

Math 5370: Transitioning to C++ for Scientific Computations

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Pointers

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Pointers

Pointer

A variable **pointing** to a **memory location**.

Whose **memory location** ? Could be a numeric or non numeric type data.

This necessitates the introduction of the **variable** say a **int**.

Operators

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Pointers

Notation	Description
*	Dereference operator, indirection operator used to access value pointed to by the pointer variable.
&	Reference operator, address-of operator used to obtain the address of the variable.

```
*pointer = *pointer + 1
```

```
*pointer = *(pointer + 1)
```

```
*pointer = *pointer * 100
```

```
pointer = pointer + 1 ≡ pointer ++
```