



POINTER OPERATORS

Working with pointers and
variable addresses



IMPORTANT OPERATOR CONCEPTS

- There are a limited number of characters on the keyboard, forcing computer languages to reuse some characters
- Operators that have multiple meanings are said to be overloaded
- Overloaded operators whose meaning depends on where they are used are said to be context sensitive
- As you study the pointer operators, take note of
 - The symbol or characters forming each operator
 - Where the operators are used
 - The meaning and behavior of each operator, which is often tied to the operator's name

POINTER OPERATORS

Operator	Name	Example
*	Pointer Definition	<pre>int* i; Person* pptr;</pre>
*	Dereference, Indirection	<pre>*i = 123; cout << *int_ptr << endl;</pre>
&	Address of	<pre>Person p; pptr = &p;</pre>
new	New	<pre>pptr = new Person;</pre>
delete	Delete	<pre>delete p; delete pptr;</pre>
->	Arrow	<pre>cout << pptr->name << endl;</pre>



POINTER OPERATOR EXAMPLES

```
int i;
```

i

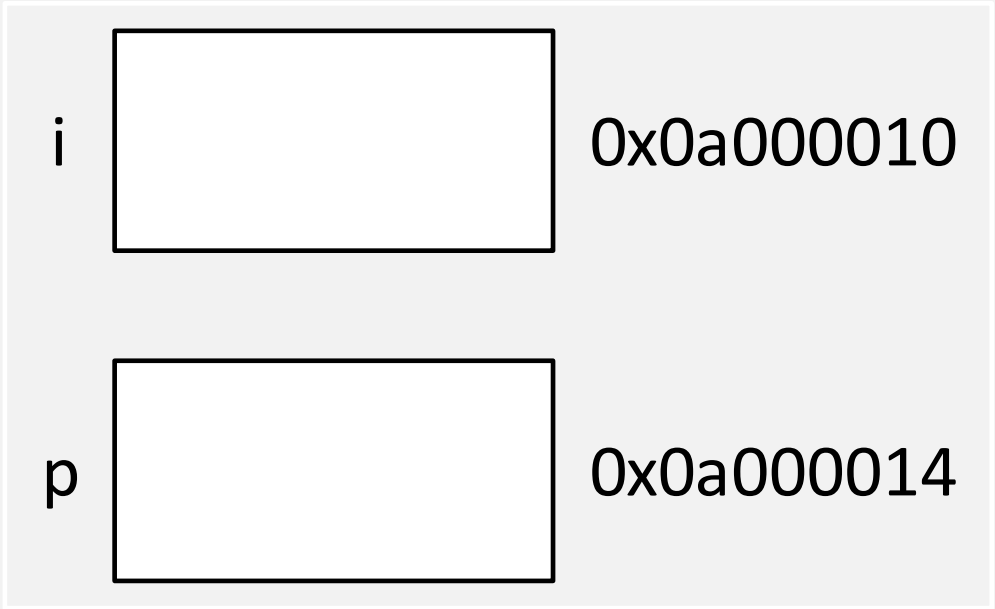


0x0a000010



POINTER OPERATOR EXAMPLES

```
int i;  
int* p;
```





POINTER OPERATOR EXAMPLES

```
int    i;  
int*  p;  
  
i = 123;
```

i

123

0x0a000010

p

0x0a000014



POINTER OPERATOR EXAMPLES

```
int    i;  
int*  p;  
  
i = 123;  
p = &i;
```

