Defining Pointers

To define a pointer, add an asterisk (*) between the variable type and the variable name in the variable definition. Here, p is a pointer variable that "points to" an int; its type is pointer-to-int.

```
int *p;
```

In this context, * is the **pointer declarator operator**. It turns the name on its right into a pointer to the type on its left. The line below defines **cptr**, a **pointer-to-char**.

```
char *cptr;
```

Even though **p** and **cptr** are both **pointers**, **each is a distinct type**; pointers are very strongly typed and there are **no implicit conversions between pointer types**.

A pointer **belongs syntactically with the variable name** and not with the base type.

```
int* p1, p2;  // p1 is a pointer, p2 an int
int *p3, *p4;  // Both are pointers
```

If you use the same declaration to define two pointers of the same type, you need to mark each of the variables with an asterisk.



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