C Declaration Syntax

Declaration Components:

```
Entity Name
            Storage Class
                                 Type Specifier
                                                                             Initializer
            static, extern
                                  int, double
                                                        var, func
                                                                              = value
Declaration Follows Use Principle
                      static int count = 0;
                                           int a[10];
  int *p;
  // *p yields int
                                           // a[i] yields int
  // p is pointer to int
                                           // a is array of int
  int f():
  // f() yields int
  // f is function returning int
```

Complex Declarations:

```
int *f(int);
// f is function taking int, returning pointer to int

int (*f)(int);
// f is pointer to function taking int, returning int
```

typedef Improves Readability:

```
typedef int (*func_ptr)(int);
func_ptr f; // Much clearer!
```