



**C\*byExample**

```
uint64_t atoi(uint64_t* s) {  
    uint64_t n;  
  
    n = 0;  
  
    // loop until s is terminated  
    while (*s != 0) {  
        // use base 10, offset by '0'  
        n = n * 10 + *s - '0';  
  
        // go to next digit  
        s = s + 1;  
    }  
  
    return n;  
}
```

**proceedure**

# C\* Integers and Pointers

# C\* by Example

```
uint64_t atoi(uint64_t* s) {  
    uint64_t n;
```

```
    n = 0;
```

**procedure**

```
    // loop until s is terminated  
    while (*s != 0) {  
        // use base 10, offset by '0'  
        n = n * 10 + *s - '0';  
  
        // go to next digit  
        s = s + 1;  
    }
```

```
    return n;  
}
```