



**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**

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formal parameter

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assignment



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**expiration**

point-to-point arithmetic

**integer arithmetic**

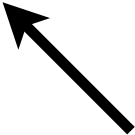
**interim** **initial**

characteristics















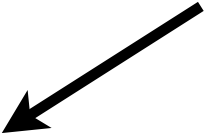


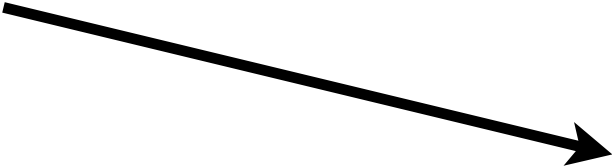


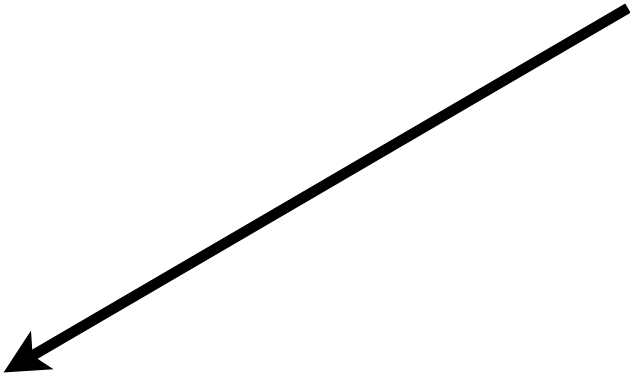


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**whineidoodrop**



**pointentry type**



**integrity type**





comparison



# C\* Integers and Pointers

- C\* integers are unsigned 64-bit integers
- In C\* there are five arithmetic operators: +, −, \*, /, %
- And six comparison operators: ==, !=, <, <=, >, >=
- C\* pointers are 64-bit pointers to C\* integers
- And pointer arithmetic: +, −

# C\* by Example

