



Slide 2

Slide 3



• Last time we(?) started writing a function to get an integer from stdin without using scanf, as a more complicated example of using functions and recursion.

It's more difficult than I really expect you to do at this point, but I thought was also more interesting, and illustrates how functions can help you break a problem down into somewhat more manageable pieces (first skip blanks, then collect digits).

- Initially I thought it would be good to have the function return the integer (if it gets one) and use a pointer argument to also "return" error information. But on second thought I think it makes more sense for it to return the status (error or not) and use a pointer argument to "return" the value, as scanf does. Why? for convenience in checking error status.
- Finish example ...

Binary Numbers — Review

- Binary numbers are "the same as" base-10 numbers except for the base i.e., where each digit of a base-10 number represents a quantity times a power of 10, in base 2 (binary) the digits represent quantities times powers of 2.
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- Converting from binary to decimal (base 10) is straightforward based on this definition.
- To convert from decimal to binary, easiest way is to repeatedly divide by 2, recording quotients and remainders, until the quotient is zero. The "bits" of the result are the remainders, right to left. (Why this works.)



Minute Essay • None – quiz. Slide 6