

## Why would I use either of these?

```
int addDigit(int valueSoFar, char digit)
{
    int result;
    printf("Value so far is: %d.\n", valueSoFar);
    printf("Digit is: %c.\n", digit);
    printf("Please enter the value with digit on the end: ");
    scanf("%d", &result);
    return result;
}

int main(void)
{
    int val; char dig;
    printf("Enter a value so far and a digit to test: ");
    scanf("%d %c", &val, &dig);
    printf("addDigit returns: %d.\n", addDigit(val, dig);
}

```

A-1  
4/27/01

## How about these?

```
int isDivisibleBy(int num, int divisor)
{
    int result;
    printf("Is %d divisible by %d? (1 for yes, 0 for no): ",
           num, divisor);
    scanf("%d", &result);
    return result;
}

int main(void)
{
    int num, div;
    printf("Enter a number and divisor to test: ");
    scanf("%d %d", &num, &div);
    printf("isDivisibleBy returns: %d.\n",
           isDivisibleBy(num, div);
}

```

A-2  
4/27/01

## One more!

```
void printAnswer(int blsPrime)
{
    printf("blsPrime is %d.\n", blsPrime);
}

int main(void)
{
    int blsPrime;
    printf("Testing printAnswer.\n");
    printf("Enter 1 for prime or 0 for composite: ");
    scanf("%d", &blsPrime);
    printAnswer(blsPrime);
}

```

A-3  
4/27/01

## HW#3 is all about...

### FUNCTIONAL DECOMPOSITION!

- design the program
- write *and* test each piece separately
- put them together when you know they work

Don't think of HW#3 as **one big assignment!**

Think of it as many **small** assignments!

Do each one separately.

Also, floss every day and brush your teeth thrice!

A-4  
4/27/01