**Why would I use either of these?**

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

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

**How about these?**

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

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

**One more!**

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

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

**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!