Functions Divide and Conquer

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Last Time

- We
 - Completed discussing reading from and writing to files
- Today we will
 - Begin learning about functions and modularity in C++

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Problem

- Write a function that sums integers in a particular range
- Write a program that uses the above function

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Example

Example (cont.)

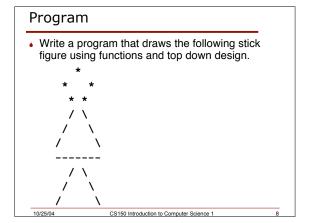
Example (cont.)

```
int getVal()
{
  int number;
  cout << "Enter an integer number: ";
  cin >> number;
  return number;
}
```

Program

- Write a program that calculates the area of a circle
- Write a program that calculates the area of a circle using three functions, getRadius, calcArea and outputArea

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Program

- Write a function that takes as input two numbers and returns the larger
- Write a function that takes as input two numbers and returns the smaller
- Write a function that computes the average given a sum and number of elements

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Summary

- In today's lecture we covered
 - Library functions
 - o Programmer defined functions
- Readings
 - o P. 170 180

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