# Topic 10
# Parameters Case Study

"Thinking like a computer scientist means more than being able to program a computer. It requires thinking at multiple levels of abstract."

— Jeannette M. Wing

# Case Study

‣ This case study involves
  – structured programs
  – input from a user
  – loops
  – variables
  – expressions
  – methods
  – parameters

# Problem Statement

‣ A triathlon is an endurance event consisting of a swim, bike, and run portion.

# More details

‣ Write a program that determines the average speed of each leg based on a number of participants.
  – Swim is expressed as time per 100m
  – Biking is expressed in miles per hour
  – Running is expressed as time per mile
‣ Ask user for number of athletes
‣ User inputs swim, bike, and run distances
‣ User nput times for each athlete
‣ Show results