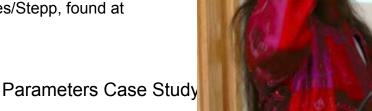
## Topic 10 Parameters Case Study

"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

Based on slides for Building Java Programs by Reges/Stepp, found at <a href="http://faculty.washington.edu/stepp/book/">http://faculty.washington.edu/stepp/book/</a>



## 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