**Data Dictionary**

pond\_diameter double diameter of pond

pond\_radius double ½ of the pond diameter

dome\_diameter double 3 times the pond diameter

dome\_radius double ½ of the dome diameter

pond\_area double PI \* r ^ 2

total\_dome\_area double 3 times the pond area

dome\_area\_minus\_pond double total\_dome\_area – pond\_area

pond\_concrete\_cost const double constant $37 per square foot

dome\_concrete\_cost const double constant $27.50 per square foot

num\_seats int number of seats to fit in dome

volume double volume in cubic feet, not gallons, 11 feet high

**Extra Credit**

dome\_radius used for volume