



Problem of the Week

Problem E

Keeping it Small

Clara is learning to code, so she has written a program to help her practice what she has learned so far.

Clara's program takes two real numbers as input, called A and B . First, her program doubles A , squares the result, and then reduces this result by four times A . The result is called C . Then her program squares B , and then increases this result by six times B . The result is called D . Finally, her program outputs the sum of C and D .

Determine the minimum possible output of Clara's program, and the two input values that produce this output.

