

Math 1190 Quiz #7

Problem 1: Find all positive integers that are within 250 of exactly 15 perfect squares. (Note: A *perfect square* is a number of the form x^2 where x is an integer. We say that a is within n of b if $|b - a| \leq n$.)

Problem 2: We call a 10-digit number *interesting* if its digits are all distinct and it is a multiple of 11111. How many interesting integers are there?

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