

Problem of the Week-6: Flashback Squares

There is a list of 2013 consecutive positive integers such that the sum of squares of the first 1007 integers is equal to the the sum of the squares of the last 1006 integers. Find the first integer in the list.

As always, show your work, fully explain and justify your answer.

Posting Date 3/30/14. Submit solutions to Noah Aydin, Mathematics Department, RBH 319 (e-mail or hard-copy, but hard copy submissions must include a time stamp) by 4 pm on 4/11/14.