

Undergraduate Problem Solving Contest

Problem 5

Due March 8th 2014

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

Show your work.

In the spirit of UPSC, you should not use the internet or look up the solution in a book. Please include your **name**, **student ID number**, and **email address** on your solution.