

UNDERGRADUATE PROBLEM SOLVING CONTEST

PROBLEM 5

DUE APRIL 2, 2013

Show that if $2n + 1$ real numbers have the property that the sum of any n is less than the sum of the remaining $n + 1$, then all of these numbers are positive.

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.