# LEWIS AND CLARK COLLEGE Department of Mathematical Sciences 

## PUZZLE OF THE WEEK (2/2/2017-2/8/2017)

Suppose $a_{1}, a_{2}, \ldots, a_{2017}$ and $b_{1}, b_{2}, \ldots, b_{2017}$ are two permutations of the set of numbers $1,2,3, \ldots, 2017$. Find, with proof, the minimum value of

$$
a_{1} b_{1}+a_{2} b_{2}+\ldots+a_{2017} b_{2017}
$$

- Correct solutions of the Puzzle of the Week \#2 were submitted by 5 students: Andres Guerrero-Guzman, Gerrick Hegarty, Chris Karagiannis, Fisher Ng, and Karlie Schwartzwald. Only the first student provided a completely rigorous justification of his answer. Nonetheless: congratulations to all 5 students!
- One possible complete solution of the Puzzle \#2 is posted online. (Look for the Puzzle of the Week announcements on the departmental webpage.)
- Solvers should include their full name and some kind of a contact information. Solutions should be submitted to Iva Stavrov in BoDine 305; email submissions are encouraged (istavrov at lclark). Solutions should be received by the end of the day on February 8th, 2017.

