Math 1190 Homework #3

We will talk about this problem on Monday, September 21st.

Problem: Suppose that $a, b, \ldots, n$ are distinct, positive integers, none of which is divisible by any primes greater than 3. Show that

$$\frac{1}{a} + \frac{1}{b} + \cdots + \frac{1}{n} < 3.$$