# ROMANIAN MATHEMATICAL MAGAZINE

If $a,b,c>0$ then:

$$abc\sum\frac{1}{a+b}\leq\frac{1}{2}\sum ab$$

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*Solution by Tapas Das-India*

$$abc\sum\frac{1}{a+b}\overset{AM-HM}{\leq}abc\frac{1}{4}\sum\left(\frac{1}{a}+\frac{1}{b}\right)=\frac{1}{4}\sum(bc+ac)=\frac{1}{2}\sum ab$$

Equality holds for a=b=c.