

Problem : **Alternating Harmonic Product**

Write a program that computes the product,

$$(1 - \frac{1}{2})(1 - \frac{1}{2} + \frac{1}{3})(1 - \frac{1}{2} + \frac{1}{3} - \frac{1}{4}) \cdots (1 - \frac{1}{2} + \frac{1}{3} - \cdots \frac{1}{n})$$

for any positive integer, n .

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