Zbl 061.06502
Erdős, Paul; Niven, Ivan
Some properties of partial sums of the harmonic series. (In English)
Bull. Am. Math. Soc. 52, 248-251 (1946).

The authors use *A.E.Ingham's* theorem on the difference between consecutive primes (Zbl 017.38904) to prove that for a sufficiently large positive integer n no elementary symmetric function of $1, 2^{-1}, ..., n^{-1}$ is an integer.

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Classification:
11D68 Rational numbers as sums of fractions