

**Problema săptămânii 134**

Dacă  $n$  este un număr natural nenul, iar  $\{a_1, a_2, \dots, a_n\} = \{1, 2, \dots, n\}$ , demonstrați că

$$1^{a_1} + 2^{a_2} + \dots + n^{a_n} \leq 1^1 + 2^2 + \dots + n^n.$$

**Problem of the week no. 134**

If  $n$  is a positive integer, and  $\{a_1, a_2, \dots, a_n\} = \{1, 2, \dots, n\}$ , prove that

$$1^{a_1} + 2^{a_2} + \dots + n^{a_n} \leq 1^1 + 2^2 + \dots + n^n.$$