ORDER MATTERS WHEN CHOOSING SETS

WARREN B. MOORS AND JULIA C. NOVAK

Abstract. Given natural numbers \( t, w \) and \( v \) we show, using high school algebra, that if \( 1 \leq w \leq t < v \) then \((v \text{ ch } t) \text{ ch } w \leq (v \text{ ch } w) \text{ ch } t\). Here we denote “\( n \) choose \( r \)” by \( (n \text{ ch } r)\).

Mathematics subject classification (2010): Primary 05A20; Secondary 05A05, 94A60.

Keywords and phrases: Key distribution patterns, combinatorial inequalities, cryptography.

REFERENCES