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$110 \leq 9! \quad (2)$

$7! \leq 9! \quad (1)$

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$\binom{7}{4} \times 4! = 10 \times 24 = 240 \quad (4)$

$90 \leq \frac{9!}{2} \quad (3)$

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$\binom{7}{4} = \binom{7}{3} = \frac{7 \times 6 \times 5}{3 \times 2 \times 1} = 10$

$\binom{7}{4} \times \frac{3!}{2} = 10 \times \frac{6}{2} = 30 \quad (6)$

$\binom{7}{4} \times 3! = 10 \times 6 = 60 \quad (5)$

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$a \text{ (dc) } b e f \quad (1)$
 $9! \leq 110$

$a b c d e f$
 $\binom{7}{4} \times 5! = 35 \times 120 = 4200 \quad (7)$

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$110 = \frac{9!}{2!} \quad d, j, m, c \quad (10)$

$a \text{ (dc) } b e f$
 $9! \times 2! = 110 \quad (9)$

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