



Tutoria

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1. **(USAMO 1996, 6)** Determine se existe um subconjunto X dos inteiros com a seguinte propriedade: para cada inteiro n , existe exatamente uma solução de $a + 2b = n$ com $a, b \in X$.
2. You have a $2m$ by $2n$ grid of squares coloured in the same way as a standard checkerboard. Find the total number of ways to place mn counters on white squares so that each square contains at most one counter and no two counters are in diagonally adjacent white squares.