

CS-225: Discrete Structures in CS

Week 5-6, Response to Praj - Problem 16

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Response

Proof Variable Mismatch

Your proof states for $P(k)$, but the equivalent statement uses the variable n . And, you constrict the domain using k as well by stating $k \geq 64$. This is a clear mismatch between n and k . The correct format should use n in all circumstances, such as:

$P(n) \equiv$ a postage of n cents can be formed using just 5-cent and 17-cent stamps, where n is an integer and $n \geq 64$

Other than that, great work! I'd like to point out a similar problem in the textbook, Proposition 5.3.1. They prove $P(k+1)$ in the same style of a postage problem. However, they use weak induction instead of strong induction. May be worth checking out.