

UC Merced Applied Math Problem of the Month

November 2024

$$6^2 = 36$$

$$66^2 = 4356$$

$$666^2 = 443556$$

$$6666^2 = 44435556$$

⋮

Do you see a pattern? Can you describe it in a mathematical way? Can you explain why or how this pattern appears? Can you prove or justify your claim?

To submit your solutions for a chance to win an Amazon gift card, and to find out detailed contest rules,

- scan the QR code, or
- go to <https://bit.ly/UCM-POTM>

