Math Case 1

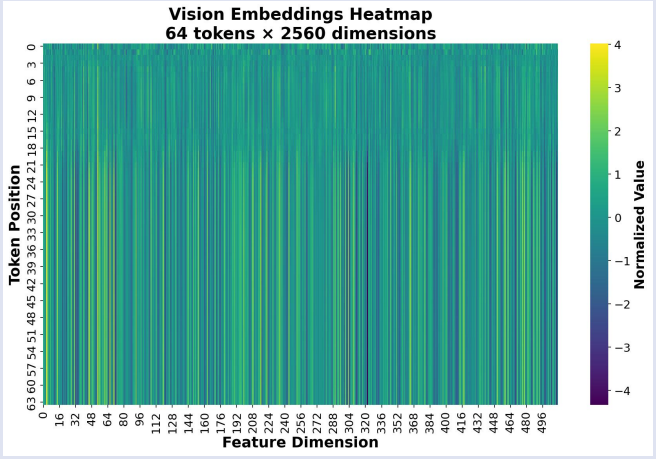
Question = "What is the least positive integer multiple of 30 that can be written with only the digits 0 and 2?"

Textual CoT = "Let M be the least positive multiple of 30 that can be written with only the digits 0 and 2. First, M is a multiple of 10, so its units digit must be 0. M is also a multiple of 3, which means the sum of its digits must be a multiple of 3. Therefore, we must take at least three 2's. Since M is minimal, we take exactly three 2's and do not have any additional 0's: $M=\\boxed{2220}$."

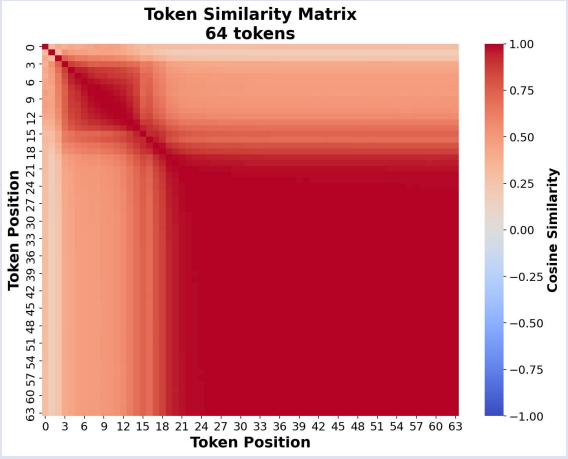
Rendered Image: <width: 4309px><height: 32px>

<|begin_of_thought|> Let M be the least positive multiple of 30 that can be written with only the digits ... additional 0's: $M=\boxed{2220}$. <|end_of_thought|>

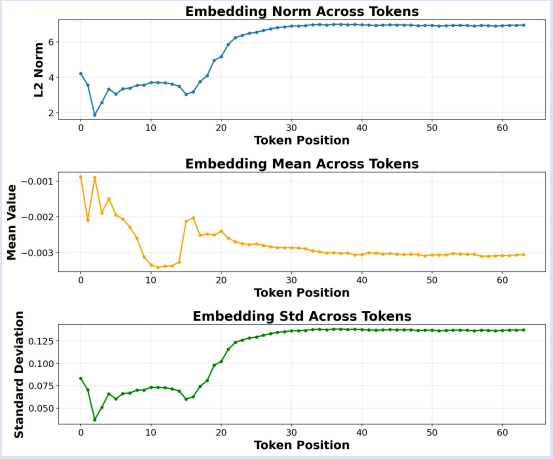
64 Latent Embeddings:



(a) Vision Embeddings Heatmap



(b) Token Similarity Matrix



(c) Statistical Properties of Embeddings

Prediction = "assistant\n### 2200" ✓