Normalized frobenius norm of the differences for each matrix: OLMo-2-1124-7B-Instruct after GRPO -0.00140Layer 31 Layer 30-Layer 29-Layer 28 Layer 27 0.00135 Layer 26 Layer 25 Layer 24 Layer 23-0.00130 Layer 22-Layer 21 Layer 20-Layer 19-0.00125 Norm difference Layer 18-ຽ Layer 17-ປ Layer 16-C Layer 15-Layer 14-Layer 14 Layer 13-Layer 12-Layer 11 Layer 10-0.00115 Layer 9-Layer 8 Layer 7 Layer 6 Layer 5 0.00110 Layer 4 Layer 3-Layer 2 Layer 1 0.00105 Layer 0k proj v_proj o proj gate proj up proj down proj q_proj **Parameters**