Average indirect effect of a single hidden vector Average indirect effect of a run of 10 MLP lookupsAverage indirect effect of a run of 10 Attn modules First subject token (o) 0.5 (o)d 0 Middle subject tokens 0.4 Last subject token effect ( First subsequent token Further tokens Last token ndirect 7.0 Average 1.0 30 30 30 Layer number in Llama-3.1-8B Layer number in Llama-3.1-8B Layer number in Llama-3.1-8B