Imagine you are the engineer in charge of Facebook’s photo caching architecture: you are weighing the pros and cons of changing the cache replacement algorithm in use at edge caches. On the basis of Table 4 and Figure 10(a), your colleague Louis Reasoner suggests that you switch to a Least Frequently Used (LFU) caching policy, as it is simple to implement and raises object hit ratios somewhat.

Is Louis’ suggestion a good idea? If so, explain why; if not, explain why not, make a counterproposal based on the data, and justify your counterproposal.

*Hint: Think about the role the edge cache plays in Facebook’s caching hierarchy.*