Question 6

Communication Protocol

- 1. I am using prime-evict-probe methodology on the level of cache lines to build the covert channel.
- 2. The receiver primes the L2 cache by accessing 4096 consecutive cache lines in its context. The sender then evicts a few lines that the receiver can detect.
- 3. The sender evicts two consecutive lines called the "datum" lines starting from the address allocated by the huge page map. The sender then encodes the secret as a stride from this datum line and evicts that cache line.
- 4. In the receiver, I compute this stride to decipher the secret.