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# PROJECT 02: ENCODE TEXT AS IMAGE
# F01: IDENTIFY VALUE OF "N"
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f01_find_N <- function(input_MSG, min_N = 10) {
  chr_array <- unlist(strsplit(input_MSG, ""))
  chr_len <- as.numeric(length(chr_array))

  N <- min_N
  flag <- TRUE
  while(flag == TRUE) {
    val_chk <- N*N
    if(val_chk >= chr_len) {
      flag <- FALSE
      break
    }
    else {
      N <- N + 1
    }
  }

  return(N)
}
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# input_MSG <- "Test message for this protocol."
# N <- f01_find_N(input_MSG, 10)
# rm(f01_find_N)
```