1. True or False (1pt each)

a. T / (F): A mapper can output at most one key value pair per key value pair given as input.

b. (T) / F : The shuffle phase cannot group key value pairs in such a way as to send (a,7) and (a,4) to separate instances of reduce in one round of map-reduce.

c. (T) / F : Assuming there is more than one worker, a map-reduce job can successfully complete even if one of the workers fails.

d. (T) / F : Both the map and reduce tasks can run on multiple machines to exploit parallelism.

e. T / (F): SIMD is an example of data level parallelism that performs different operations on a single input data value to produce multiple output data values.

f. (T) / F : The amount of parallelism achieved by a single SSE instrinsic is limited by the width of registers.