

1. Given a table with ten blocks ($B = 10$) and ten tuples per block ($R = 17$) for a total of 170 tuples, compare the cost of accessing seven random tuples in an unknown order, against the cost of reading the whole table sequentially. Assume that seek time is $12ms$, rotation time is $3ms$ and transferring one block is $0.03ms$. You should consider which is the probability of two tuples accessed consecutively are actually in the same block, but ignore the presence of any cache or buffer pool mechanism.