Khoi Nguyen
CS 143 HW 5

1) Access Time = (Seek time) + (rotational delay) + (Transfer time) = 15.02ms
    Seek time = 10ms
    Rotational Delay = 1/(6000 RPM /60 s)*(½) = 5ms
    Transfer Time = (10ms / rotation) * (1 track / 500 sectors) = .02 ms
2)
    Bytes per tuple = 2+4+4+4+4+4+30+20 = 72 Bytes
    Tuples per sector = 1024/72 = 14 tuples
    Total disk blocks = 1000 tuples / 14 tuples per sector = 72 disk blocks
3) Access time = seek time + rotational delay + transfer time*all blocks = 10 + 5 + (72*.02) = 16.44ms
4) Access time = seek time + rotational delay + transfer time = (24*10) + (24*5) + (72*.02) = 361.44ms
5) Access time = seek time + rotational delay + transfer time = 10 + 5 + (.02*1) = 15.02ms. This would be useful because then you wouldn't have to search every block sequentially to look for years.