

1. a) NTFS
2. b) FFS
3.
 - FFS : 2
 - 2 because 1 for inode block and 1 for data block containing 10 bytes of data
 - NTFS : 1
 - 1 because master file table record can store data directly given small data
4.
 - FFS : 102
 - 102 because 100 data blocks, 1 inode block and 1 indirect pointer block
 - NTFS : 101
 - 101 because 100 data blocks, and 1 master file record
5. b) NTFS
6. NTFS is a file system based on contiguous allocation disk strategy, and data blocks in NTFS are placed next to each other along the same track as much as possible. From this, little amount of time is spent finding data blocks.

FFS is a file system based on index allocation disk strategy. Although FFS tries to group as closely possible, the data blocks are positioned more randomly. Because of this, disk arm has to move around to find data blocks, and this adds seek time. From this, we can conclude FFS is slower than NTFS.