```
1;
    250 GB = 262 144 000 KB -> Blocks
   b)
    262 144 000
    C)
    2^x = 262 144 000
    x = log2(262 144 000)
    x = 27,96 also 28 Bit
    d)
    262 144 000 * 28 / 1024 = 7 168 000 Blocks
2;
    a)
    single indirect
    107 \ 834 \ 590 - 256 = 107 \ 834 \ 334
    double indirect
    107 \ 834 \ 334 - 256^2 = 107 \ 768 \ 798
    triple indirect
    107\ 768\ 798\ -\ 256^3\ =\ 90\ 991\ 582
    now the block can be read
    90 991 582 - 256^4 = -
   b)
    107834590 / 1024 = 105 307
    107834590 \% 1024 = 222
    go through the fat to the 105 307 block
    and skip in this the first 222 bytes
3;
    4KB
    10 * 4 = 40 \text{ KB}
    4096KB/4B * 4096KB = 4.194304 GB
    (4096/4B)*2*4096KB = 4.294967296TB
    (4096/4B)*3*4096KB = 4.398046511104EB
    1KB
    10 * 1 KB = 10KB// first 10 data blocks
    1024KB/4B * 1024KB = 262,144 MB
    (1024/4B)*2*1024KB = 67,108864 GB
    (1024/4B)*3*1024KB = 17,179869184 TB
4;
    a)
    yes, i think, most files are small and with 512 bytes, the memory is more efficient used.
```