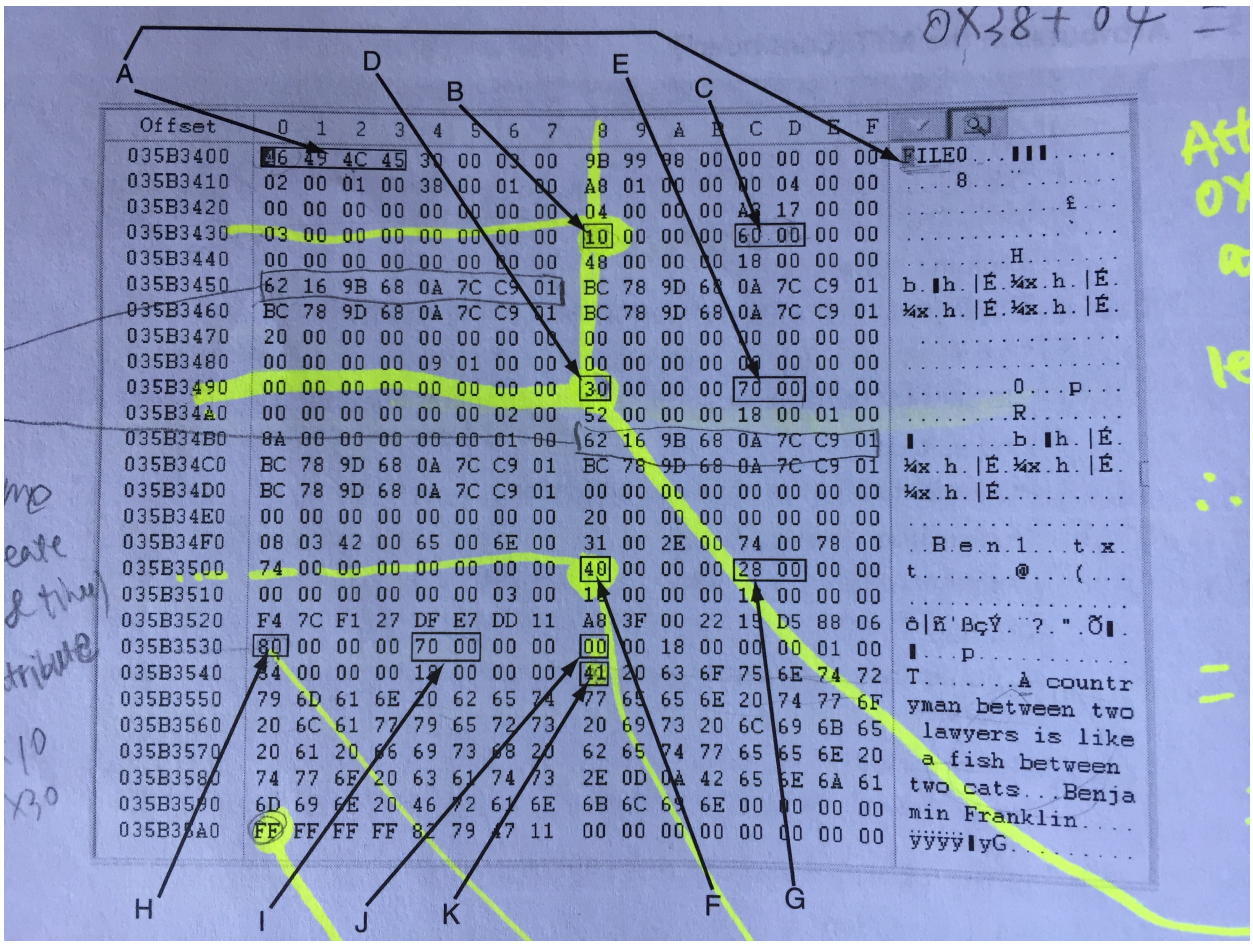

- For the header of all MFT records, the record fields of interest are as follows:
  - *At offset 0x00* - the MFT record identifier FILE
  - *At offset 0x1C to 0x1F* - size of the MFT record
  - *At offset 0x14* - length of the header (indicates where the next attribute starts)
  - *At offset 0x32 and 0x33* - the update sequence array, which stores the last 2 bytes of the first sector of the MFT record
- Attribute 0x10: Standard Information
  - *At offset 0x38 from the beginning of the MFT record –The start of attribute 0x10*
  - *- At offset 0x04 to 0x05 from the beginning of attribute 0x10* - size of the 0X10 attribute
  - *At offset 0x18-0x1F* – The file's create date and time
  - *At offset 0x20 and 0x27* - the last modified date and time for the file
  - *At offset 0x28 and 0x2F* - the last access date and time
  - *At offset 0x30 and 0x2F* - the record access date and time
- Attribute 0x30: File_Name
- If the file name is shorter than eight characters, there are only one attribute 0x30
- If the file name is longer than eight characters, there are two attributes 0x30
  - *At offset 0x04 to 0x05 from the beginning of attribute 0x30* - size of the 0x30 attribute
  - *At offset 0x5A* – short file name
  - *At offset 0x20 to 0x27* – file create date and time
  - *At offset 0x28 to 0x2F* – file last modified date and time
  - *At offset 0x30 to 0x37* – the last access date and time
  - *At offset 0x38 to 0x3F* – the record update date and time

- Attribute 0x40: Object_ID
  - *At offset 0x04 to 0x05 from the beginning of attribute 0x40* - size of the 0x40 attribute
  - *At offset 0x14* – starting offset position for GUID (global unique identifier) data
  - *At offset 0x18 to 0x27* – starting position for GUID Object_ID data
- Attribute 0x80: Data for a Resident File
  - *At offset 0x04 to 0x05 from the beginning of attribute 0x80* - size of the 0x80 attribute
  - *At offset 0x08* – the resident/nonresident flag; for resident data, it is set to 0x00.
  - *At offset 0x10* – Number of bytes in the data run.
  - *At offset 0x18* – start of the resident data run
- Attribute 0x80: Data for a Nonresident File
  - *At offset 0x04 to 0x05 from the beginning of attribute 0x80* - size of the 0x80 attribute
  - *At offset 0x08* – the resident/nonresident flag; for nonresident data, it is set to 0x01.
  - *At offset 0x40* – The start of the data run. The first run is the LCN.