

# CS 345 - Operating Systems

```
void setFatEntry(int LogicalCluster, int value)
{
    // Convert LogicalCluster to byte location
    FatIndex = (LogicalCluster * 3)/2
    if (LogicalCluster is even)
        //split FatIndex + 1 for 4 most sig bits
        FAT[FatIndex+1] &= 0xf0
        FAT[FatIndex+1] |= (value & 0xf00) >> 8
        FAT[FatIndex] = value & 0xff
    else
        //split FatIndex for 4 least sig bits
        FAT[FatIndex] &= 0xf
        FAT[FatIndex] |= (value & 0xf00f) << 4
        FAT[FatIndex+1] = (value & 0xf0) >> 4
}
```