1 Quercus Component

- 1. c) code
 - d) heap memory
- 2. a) number of links to this inode
 - c) type of file system object
 - d) file size
 - f) array of pointers to blocks
- $3. \bullet a)$ blcok bitmap
 - b) inode
 - c) data block
- 4. b) data block bitmap

2 Markus Component

- 1. a) Algorithm A would complete faster.
 - We are only moving the used blocks to free blocks
 - It doesn't have to be concerned with finding related but scattered data blocks
 - Since it's not finding it, the total rotational delay time and seek time is low

On the other hand Algorithm B has to find all data blocks scattered across the disk, and to make relevant data blocks contiguous, it has to move other blocks around. Finding each block adds seek and rotational delay time, and moving further adds the day. In total, the delay time is much larger than algorithm A.