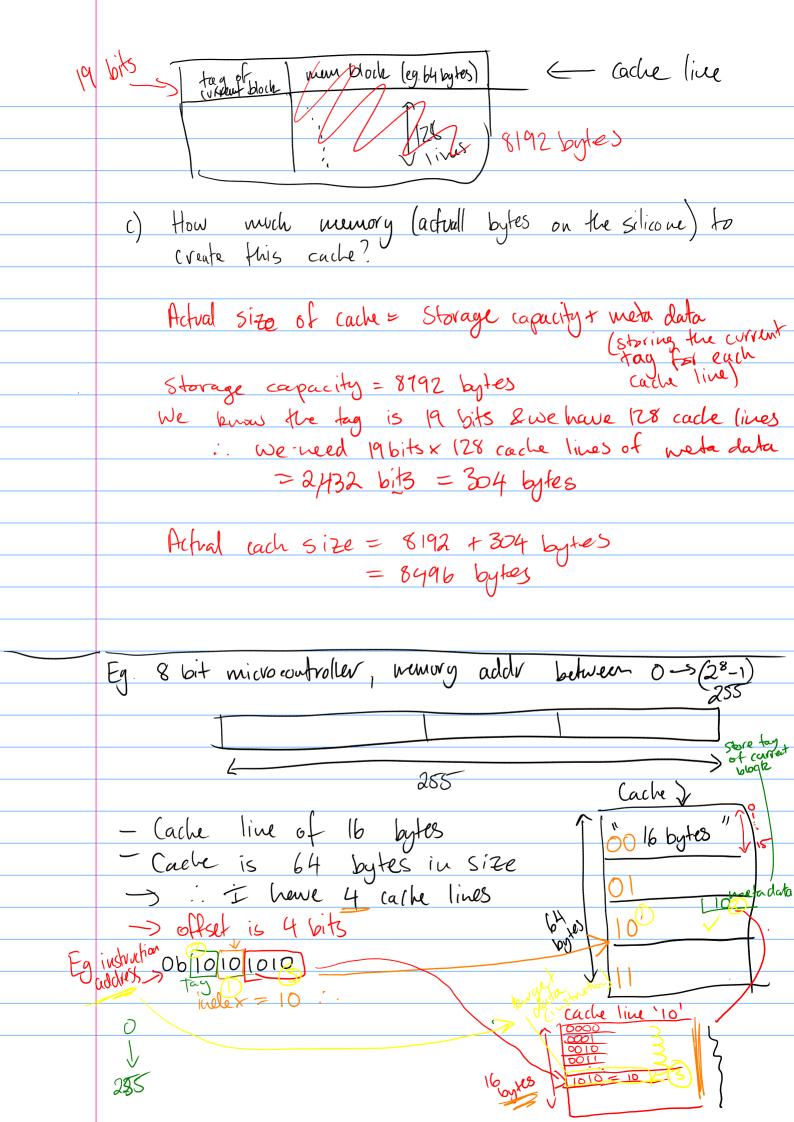
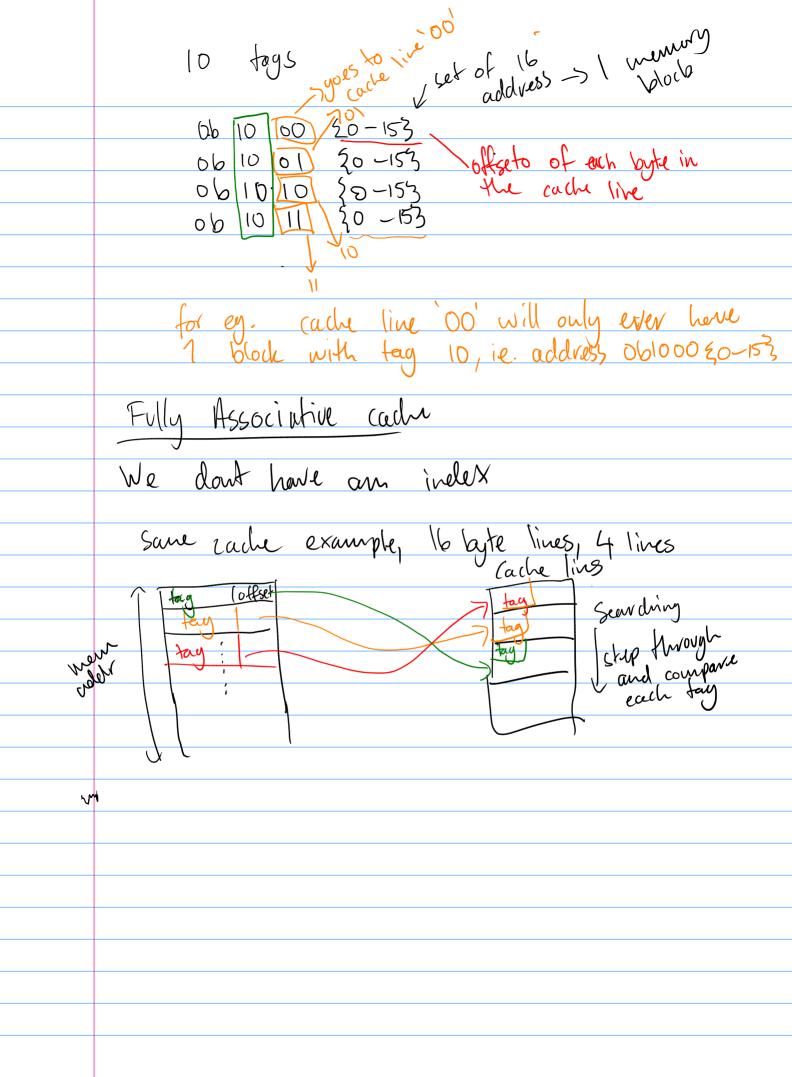
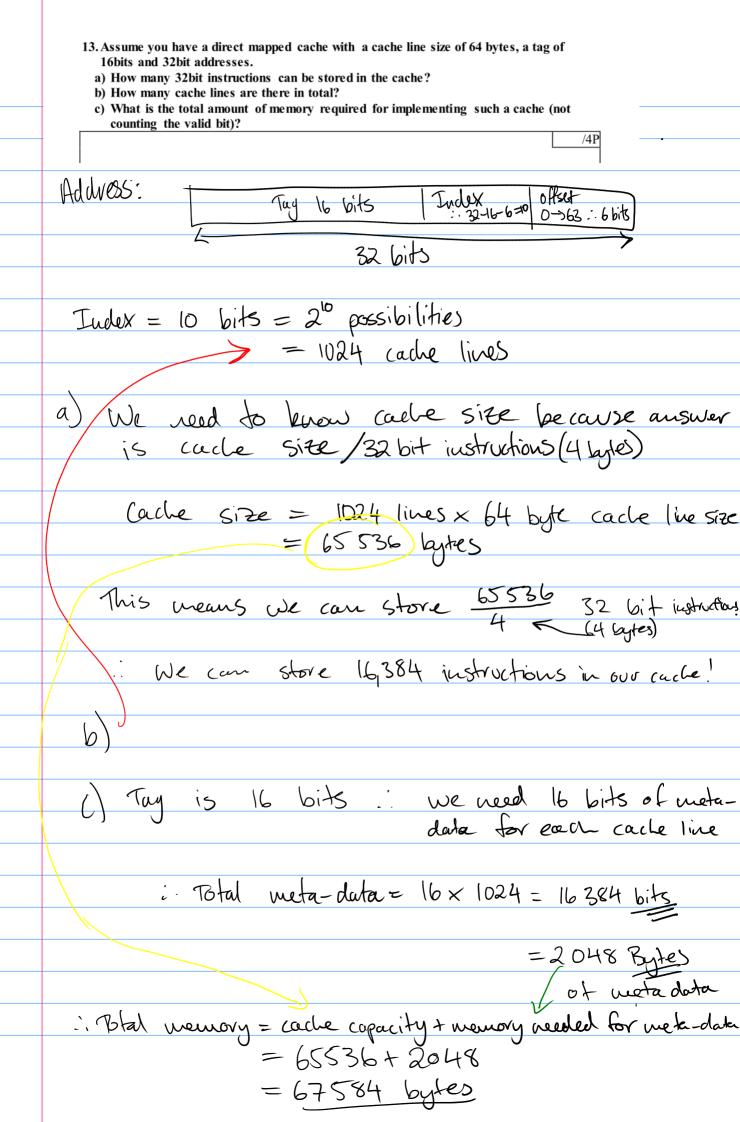
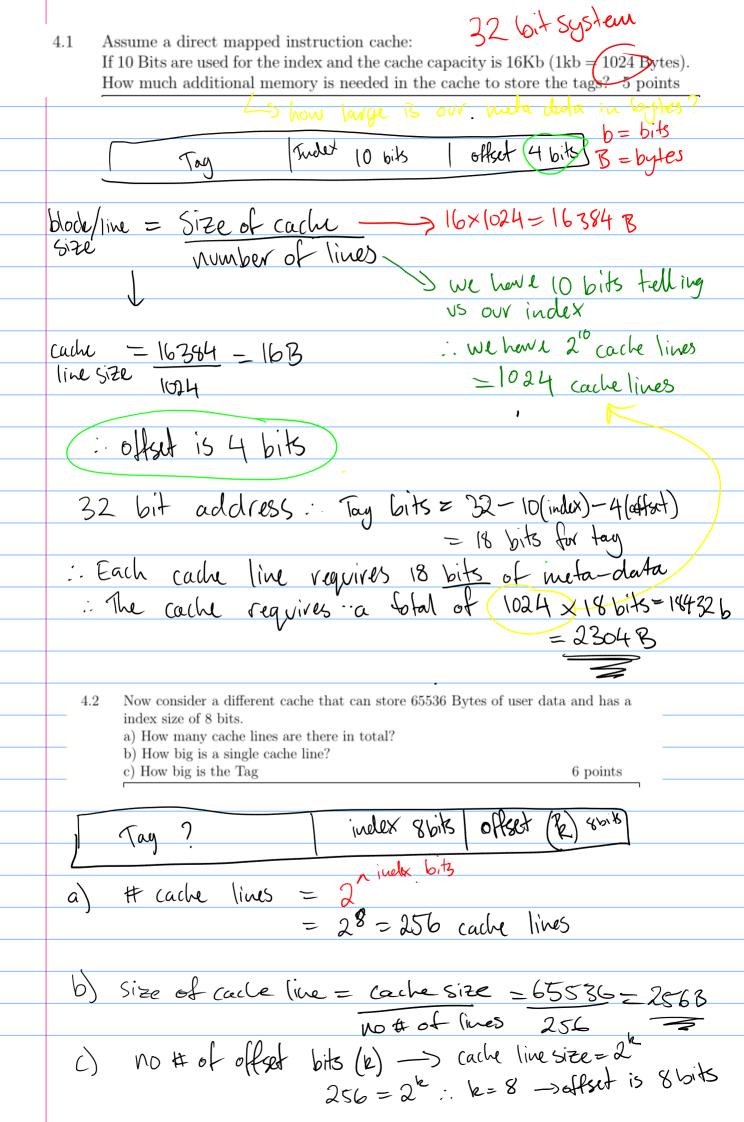
Direct Mapped Cache 32 bits index 7 offset 6 find cache went block for byte line storage capacity (2 adres) Q: - Direct Mupped Cache of size 8192 bytes - Cache line (mem block size) has a size of 64 bytes a) How wany cache lines are in my cerche? # cache lines=Size of cache = 8192 = 128 lines What are the size (in bits) of: Assuming 32 bit b) - the offset (block offset) field? system - the index field? - the fag? offset -> 64 byte blocks each byte has offset between 0 and 63, this can be shown in binery using 6 bits index -> we have 128 lines (see Qa), each line is therefore between 0-127, this can be 3hown in binary using 7 bits Tag -> remaining bits -> 32-offset(6)-index(7) = 19









: Tay is 16 bits