consider 4-way set associative mapping with 16 cache blocks, the memory block requests are his the order (0, 255, 1, 4, 3, 8, 133, 159, 216, 129, 63, 8, 48, 32, 73, 92, 155). Which memory block all not be en one eache y irobs mied? a) 3 b) 8 c) 129, lat 216 SUC 3 48 N% 4 = 216 92 set x 133 Sex 1 129. Any free space 73 Sex 2 256 155 Set 3 159

has 8 conclus blocks 9. 2 way set associatle mapping which block will be (0,3,5,9,7,0),16,55). bresent at end of requencer? set-0 0) 0,3,5,9,16,55 6) 0,5,5,7,9,16,55 let 1 ver 0,5,7,9,16,55 set 2 d) 3,5,7,9,10,55 &. 2-1404 when 4 blocks. Find no. of cache what for. 8, 12, 0, (1), 8 L

Copy of data being stored at multiple locations and

If one location updates the data, other locations Ill

have outdated data. Hethods to solve this are:

1) white update - white through

2) write update - white back

3) write invalidate - white back

4) write invalidate - white back

Q. Consider an array has 10 element each of which contain 4 words. A 32 word cache to used & divided buto block of 8 words. what is an The 44 rate ! (d (i=0; ic10; i++) for (i=0; i(0; i++) A [i] [i] A Ci] Ei] + 10; -> Total clements = 100 Total Instances = 2×100 = 200 Everythme one read where we a mossour of 4 access So, mus rette = $\frac{50}{200}$ = $\frac{1}{4}$ con major. 1AT rate = 1000 = = = J for odumn major, mus nate = 1/2 = We nate