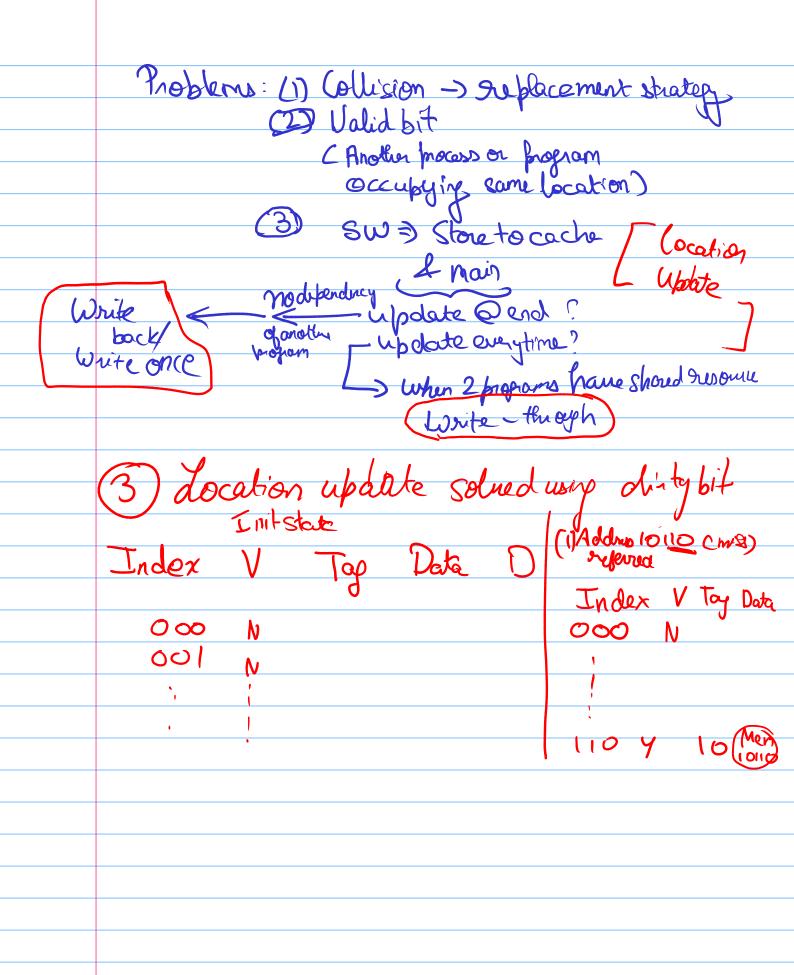
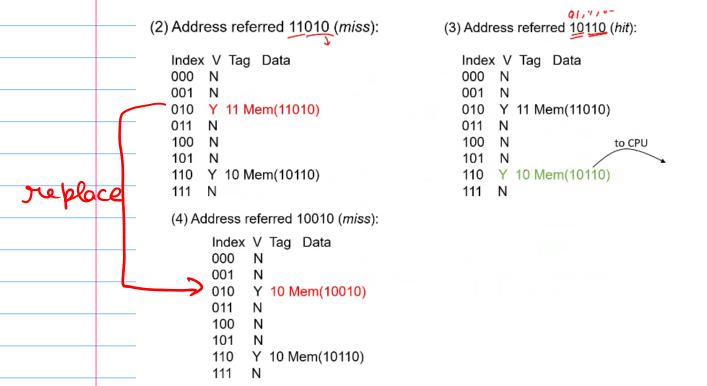
(ache organisation		
Technique to mak a location in the main momen.		
Jechnique to map a location in the main memory to a location in the cache memory		
MM		
- bytes Cache		
SKAM>		
0-1-0		
What happens if a faticular date or instruction is not found in the cache?		
is not found in the cache?		
<u> </u>		
Tag Valid D Data [ache hit		
Couche miss		
CPU time: no. el CE x CCT		
CPU time: 10. of CC x CCT  Mem Stall cyclos= no. of misses x miss benalty  To x misses x miss benalty		
To my man and the		
- TCX Muss princes		
Instruction		
= Icx mem acces x miss pendly  just mem acc		
post" mem acc T		

CX	CPI=1, when all memory accesses hit
1	in the cache. T.f 30% loads and stones. Miss penalty
	is 1 total continue 100 cycles & miss rate = 5:/
	is the cache. If 30% loads and stores. Miss penalty is total orders 100 cycles & miss rate-5%.  How much faster the combuter will be if all
	instructions were a cached
	CPUtine= Inst <sup>n</sup> x CPI x Clock cycle time [if all cached]
	T-Conflorad?
	Lifettacras
	= ICXIXCCT
Cache	Tou 0.3 x 0.05 x 100 XCLT
Cache	JCX 0.3 × 0.05 × 100 × CLT
	= hotc x cct
	Overall CPI = 2.5 IC
	Dind 10 16
	22 4 and point
	0 100 0 0 0 0 00=0
	100 0 0,4,8,12 01,0= 4 etc
	2 1112 2 1 1011
	113 2,6,10 15 Thave
	3 3,7,11,13 Lakook
	tag index at this
	K-n n intr
	6 Lochre





dirty bit allows the OS (or hardware) to check if the coche data is written in the main memory or not.