## Assignment 2

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Course: CSE 3313

section: A

## Ams to the Q. No1 (Slide 10 - Problem 2)

FOR 12

Blocks = 
$$\frac{256 \times 602^{10}}{2! \times 2^2} = 2^{15}$$

Forz 12, - 1 0= most baiges 2018

CE 139.

FOR 42,

. . Tord case = 6, miss & +

B. N = 2224 - 2

$$Blocks = \frac{2^8 \times 2^{10}}{2^2 \times 2^2} = \frac{14}{5}$$

For 12,

(AILL)

-Block copied from = 0 to (16-1) = 0 to 15 FOR 42.

For 7, Block expired from (2×16) to (2×16+16-1)=

32 to 32 to 47

BA. =[15/16]=0 FOR 15, ... 15 -> hit (d) Blocky = 28×20 14 For 40. B.A = [40/16] = 2 B.  $N = 2\%2^{14} = 2$ For 12 13. A = 12/16/ Hind <-04. 0 = M. SI BA. = |39/16| = 2of 0= (B.N. =2% 214 = 2 bosiges Nool8. --- 39 -> hitch= AS miss reate = # of miss 1 = 2 = 33.33% Total case = 6 = 33.33% (Ans) Fore 7, Block copied from (2×10) to (2×10)= (Ams) B.A. = [7/16] = 0

B K = 0% 2+=6

tin for

## (C)

In this case, spatial locality caused the change in b), in miss rate. Because worlds per block increased and after that we saw that miss rate reduced. This happens due to spatial locality. (Ans)