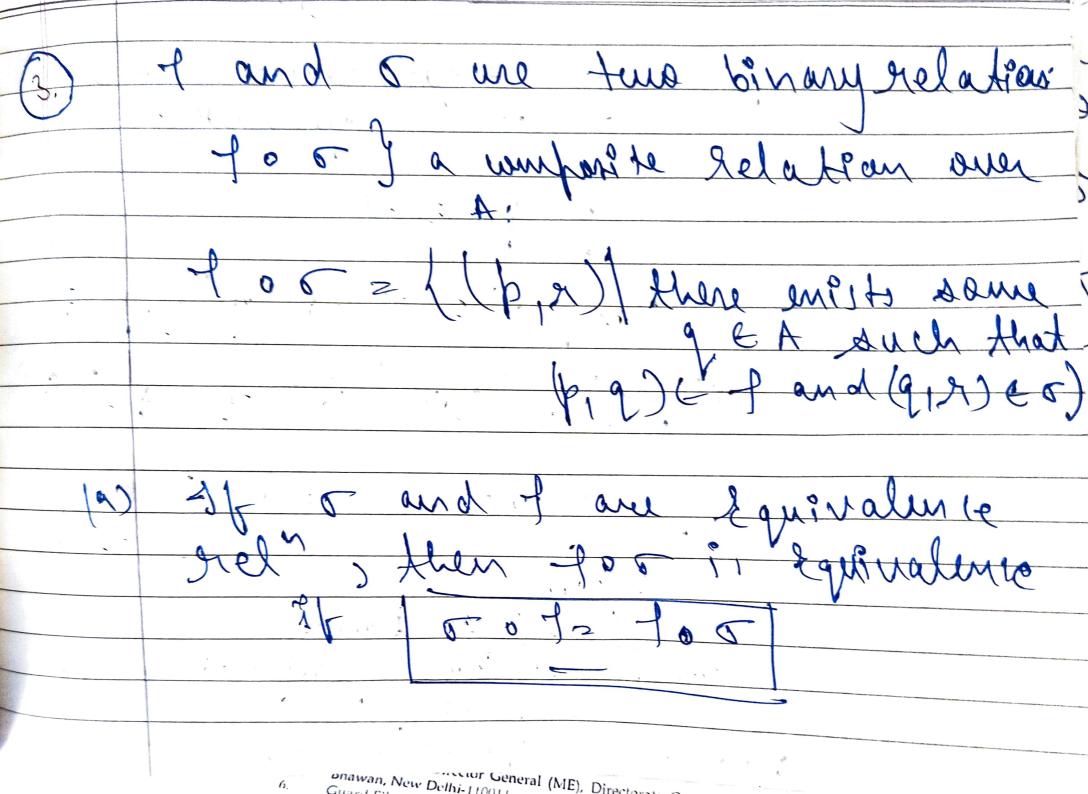
CS 21201 Disc Seles Standarde (Page () 20 (53 00 13, Harolik somi 2 th Oct son Class Test 2 We have a C tode below: vord now (int a, Put b, Put c) (; put 91, 2, t.; whale (1) if (a==b) 11 (b==c) 11 (c=20) break; 9= (a+6)/2 3 5= (b+0/2) t 2 (+a) a = 9 j b 2 8 j C = t j La prome that the about C function | method torminals for all non - negative integer Note: Here division by a are to condidered for int variable.

1, 2, 3, en au horen fram tope town every every such such : tot denk meget it was and in the such that 9-6-d=2021k haltiple of We know that factors of 2 ors are: To prove: O by Enample: Q22021 621 d21 2021-1-1-22021 (a+c)-(b+d)2 2021K only possible multiple? (a+c)-(b+d)= 2021 > 452 22 Can be refresented as Product of Odd X Uda - Evenx Even



Landition implees: 0012 100 A 2 p enos ((P,9)) 5 0 0 p A 3 p enos ((P,9)) 5 0 0 p to H Asus (P19) 6-1 and (997)65) Here some of the same of the (p. e) from es and y (27p) E-P of 90 squiralnce and (prp) e-(mp19) E 9 9 (9) E 9 12(8,9) (4.3() E-1-3) (p,9) e-1 37 Por 5009 ps mence equipoling

mak MibrepH 20 (530023 For a function: f: X77 9: P(A) -) P(B) M: P(B) -> P(A) 9(A)= (b) Fach, f(a)=b)am h(B) = (a) +(a) &B) for all A.C.X and BCY La prans (a) fis injettine and only if
h (g (A)) = A for all
A C X Note that, 9 (A) = { b | 3 a E A, f (a) 2 b q(A) z d(A)Huse in luymen te som could be unde satand as all those peruto to which I 95 getter mapped is a sange.

made it he down classmate 20 (530023 h(B)2 (a) f(a) 6 B h (B)2 (flateB) This in layour Lerus means Damain; Sa for to be injettive: Jer any true points in \$(s) f(S) = S = S_ It is some-finjellene; now if g(A) represents

and h (B) clevetes all

and h is clevetes all

posible point in downer mapping

be det B:

ten diffien: h 19 (A)) = A for all nonge we have a unique nonge we have a unique noppen set A: ta it noppen such says! Jange with minus

Frack NEBROH 200530023 Hence you can conclude For all ACX f 9e gnéerline for all h(g(A))=A.o. only of g(n(B)) = B for all BCY Speaking turther more We kur aus: Rusul that for all b & B,

there exists a & A south that

\[
\begin{align*}
\text{there} & \text It follows that if ? (h (B)) 2 B H BCY of the sense of (a) is is ght) " denotes all pressible outputs of the when A & g(A).

inde Albreatt classmate 20 (530023 hadre