DMS Assignment #2

	3 ASSIGNMENT HZ
1 20km	{By Induction y.
	Let x be any element in E*. Let P(y) denote the predicate
1 A No	that IlxyII = IlxII+11yII, where yE Ex. Since y E Ex, y can be
	The null word I or a non empty word.
10 m	Basic step: To show that PCI) istrue; tie. PCI) is true.
	11/2×11 = 11×11 + 11×11; since xx = x, 11×11=11×1(=11×1(=11×1))
	280 PCX) is true. =11 n11 + 11 × 11
	Induction step: Assum PCy) istrue, that is 1 thy 11=11111+11411.
3	inductive hypothesis). We must show that P(ys) is true, thatie
N. A. C.	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
North Control	Then mys = (my) 811 = 11 my 11 + 1 length of fution.
	Then nys = 11(ny)811 = 11xy11+1 length of fuction.
6	= (11x + 11y 11) + 1 = n + (1411+1) = 11x11 + 11484 > Records of
Maria No.	= 11 ml + 11 ysu = Reconstruction
	Therefore, P(ys) istrue. Thus P(y) implies P(ys).
	Therefore, by induction, P(y) is true for every y \(\xi^* \) that is \ny = \n + \y for every n, y \(\xi^* \)
	my = 11x11 + 1/4/1 for every n, y E >
2 Solu	N = 1
2 SOM	Suppose Shas the property that every pairs of
400	and the ourse of a delent divided
	Since we have (n+1) elements, We partition 812, 2nd into n sets
Type	T, Tr, In The pigeonhole principle says that they should be
*	atleast two element for some i. This should be useful to conclude that there should be a, GES such that a/6.
1 , 9	sword ve a, bes such that a/6.
3 gohu	
	C++ identifier Contain 37 alphanument character.
	principle, there should be atteast two charactery which are some.
	which are some.

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