	dide that does proposing in 4.5 algo and write the
\	hear politice itease medeling ( from their DATE //
	perspecific.
100	From nomens perspective, the starts single, and once
40 k s 19	she gets engaged , she can only get into better
3	engagements.
	Lake French Land Street
- 15 m	From mans perspective, he start single, gets engaged, and
14	may get dropped repeatedly only to settle for lower
	ranking woman.
4 2	antine of partitions of the
	sul terminates in atmost (n²) iterations
	in The Marrier getter out
	Proof of correctness:
	proof by contradiction
	Assume instability exists in our soll involving
Hira .	two pairs (m, w) (m', wi)
	ma .w Say (mw) is instability
	m'o
Paret a	Q: Did m propose to what some point in the execution
	A: ALL EF no, w must be higher than w' on his
*6 48	eist -s contradiction
	Muldy and Auto and Auto-Common
	IF yes, he must have been rejected in favor of m"
N. T.	and due to O either m'= m' or m' is better than
	m" = contradiction,
B	Identify highest ranked woman to whom m has
	not yet proposed
	Next (1. N)
	Hext [m]
	> Next women 'm' will be proposing to

	PACIE NO.
	marvac C. 7
	manfret [1. n, 1. n]
	manfrer [m, i] denother ith women on man'm'
(X	To 5' 1 10 111 50
ų (	MACH WOMAN W TO WHAT
	proposing to
	W = ManPre F [m, Nex+[m]]
i i	
*	
	(yrreat [1 N]
	initially current [1. N] = null
	once male massigned do women wa
	current (3) = M
	and realist the same of straight in order on the same of the
B	Determine which man is preferred by W (0(1)
	women canking Imas   mensol
Fill de	72 00 2 ( mel ) 1.50 - 1. 1. 1 2 me
	Prep before entering GS Algorithm.
	create a ranking array where lanking [w, m] contains
Ŷ.	the rank or mem m based on wis pref
	and the second of the second o
	preparation + Gs iteration
	O(n2) 2000 O(n2)
	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	$\frac{o(n^2)^{\frac{1}{2}}}{n}$
	Nomen w is a valid paraner of a man m if there is a
Ma	stable matching that antains the pair (m, w)
	To adjust
	Highest women is best valid partner of man m
	The production of the second s

FAGE NO.

	Every exec of as algo (men preporing) results
	in same stable matching regardless the order
	in same stable matching regular
	in which men propose.
	(Best valid partner are invariant. with respect to the
	Agorithm
32.	
	Proof by contradiction.  Say M is the first man rejected by a valid
	partner w in Favor of m'
-	payrner w in revo.
	<u> </u>
	IF M and w are valid partners
-	JE M and wared
<u> </u>	in some paining s' they are paired.
14.1 14.1	W
	s' M (MW) paired
	em' w' (m'w') paired
	w verected at
	But w prefer M' over M as wrejected H for M
,	
	But/M' proposed w/ over for Hence /pair
	(m'w) cant be formed.
<u> </u>	IF M' proposed to w and M was first to get
	rejected (m'w) would be paired but m'n' paired
	Hence Contradiction.
1924	

	T(K) = 27(K-1)+ 6(1)	
	T(L-1) = 2T(L-2) PAGE NO.	
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	Discussion week 1	
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<b>1</b>	with the weight ofference of the wind of the second	
	galley are .	
	T(1) = 77(0)	
1112	T(2) = 2T(1)	
	T(3) = 2 T(2)	
1	T(k) = 2 T(k-1) - 10(1)	
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