And the second s	
	Term Work - Ou
	Problem Statement
	Nuite a PROLOGI for a MENUDRIVEN PROGRAM foi
	Members, concorcation, add Asher and Permetation function
	Thury
	In Prolog a mono-division program con be impured ed
	Cusing a combination of Joses, sum and brighting of
	Hori's general ausine a how you con functioned
	a mon driver pragram in prolog:
1.	ayine the Here aption:
9.7°	unes noitge unem das eneurque at lead sear)
	the fores chrecewed suprises the option's name of.
	ony avocioted paromout an argumens.
ာ .	: suure gribaat une ensmalgent
	- write sum that define the behavious for more aption.
	-> Each sur should bout a head that matchy the
	huses men option & a body that specific the action.
	to be performed-
ვ.	Implement the main more leap:
	-> Link a predicate that dispense the more options of
	perompty the West for inpul-
	- Repose the main mine loop until the lear chaper.
	to Exist the program.

	PROURAM
	1. Hupor prudicola
	Cancot (noti (17, 1, 1).
	concetenose([HIT, L, THIRT): - concete(T, L, R),
	odb_element (X, L, [XI L]).
	dus: eumero (_, [], []).
	dute_gument CX, [XIT], T).
	duce elemen (X, [HIT], [HIR]):- X 1=H, duce - elemen (X, T,
· · · · · · · · · · · · · · · · · · ·	
	pumuse C[7, [7].
	purmue ([HIT], R); - purmute (T, X), Sever (H, R, X).
	1;61_mmbin (x, [x1_])
	11St - member (X, [_17]):- 11St - member (X, T)
-	
-87 ,892	10 minu doiver junction
لوليعقد مرعوض	minu:
	enrite Li Levo,) UI
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	uvite ('?. Add zlemes), n1
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	Chiex member 1), n1,
د وه الله الله الله الله الله الله الله ا	WN4 C'6. Auis'), n1,
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-	Proces (Chaire).

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    libit (Russ), o1.
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     mul.
Paroce (3): -
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      dume - gumero (X, L, Riemo)
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      ensite (Rema), 01,
      Mere.
Pracu (u) ?-
    . with Cienton a list: , ),
      Jund (L)
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	Jinal (Y, Pumer) ((L, X), Ruce).
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	W.M.
 	Pracu (5):-
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	% Main Poudicot e
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8	

	The second secon	
Jan 197	gus pus	
	And has	
	Menu	
N. Committee	1. Concotenote listu	
	2. Add gioment	
	3. Qui c elimin	
	a. Purmute 1;5	
	5. Chiece Members	j
_ 2 2 2	6. Quil.	
	Cuta the boupa of dom choice: 7	
		- 1
	Coton the just 115t: [1, 2, 3, 4]	
	(nin the second list: \$5,6,7,8]	
	concolunated 11st: [1,2,3,4,5,6,7,8].	
	Con Cotatole 3 1737 1 L	Fig.
	the Manual Chaill 12	
	Enter the first number of your choice: 2	- 41
	Enter an Element; 2,	
	Entur a list: 4,5,6	
	List after odding element: [4,5,6,2]	建
	Coto the number of your Choice: 3	- RE
	enter on eliment; 5	
	. 1	
-	L'is of the duesing elemon: [4,8,2]	
4. j		

TUMNORK PROBLEM STATEMENT - Duign an augustum for TO
impliment Dipth first franch and dureup a probable pragram for the Some. Thory Dupin . Jinst liever an DFS algorithm is a succusive arganithm that we but backtracting principle. It entails conducting exhaustive finances of au nadul by moving farmord if panisher & procentation, if neway. To wist the new node pop the top nod from the stock & put all of its marky noolu into a stace. Topo rogical Sorting, Schedury problems, graph cycle deveton, & sawing puzzly with just one lawson, Juen as a more on a Ludolcu puzzle. A standard Ofs implementation pull even Uvider of the graph is to one of two cotysiics. 1. Waited. 2. Not wited. The purpose of the augustithm is to mower even unich as united unive austrily cycles. The DES aignithm wars as follows 1. Stars by putting any on of the gropm's worker on

	2. Take the top Hem of the Stance of audit it is the
High and the second sec	winited pist.
	cripte a cut of that busid's adjacus nodu. Add
3.	the one curich which in the weited wer to the
	100 d the Stack.
	kup supwhy Steps 2 & 8 until the Stack is
u.	Empiry.
	Exambia
	Start (S)——A
	(E)
	(6)
	(i) evoard.
	Dos cd
	ωθρά.
	(3)
A	
	(D, E), (e, E) , (B, s) (E, A) , (A, G) , (S, Ni)
	(c,s)
	(C, E), (B, S), (L1, S) (P, E), (E, A) (A.S) (S, W)
	par i ly [, £ -) A, A-5
	Q - E -) A-2-5 QEEEAES
	5 7 8 7 8 7 8
Mar mark I a sa	

are and h	
	Algorithm
1	Depth First Seanch ()
	opus 2 41 Start NI LIY
	Usud 4 ()
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	nod < xuad(nodefair)
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	thin surun Riconstructan (nodi Pain, chand)
	Rue claud 4 cons conodepair, chaud)
	(Widser & novium (node)
	no Loo pu & Removis ein (childrer, open, cussed).
	new - Maxipairs (Noloops, nobe)
	open & Append (new, Tail (open))
	Jusun "No Souvion found"
12 12	Removisien (nodi Pait, opertiet, Mandlist)
	if NUII (no de List)
	thin visus ()
	alle n & Head (nodeliet)
	i) (oawatn(n, openist) OR account (n, chaudlet))
	then suren Removeen (Tail now list), oper list,
	cousi+).
	eur server cons (r, limovo un (Tair (node Lit),
	opnint, claredint)
	Queun In (node, list of Pairu)
2,1	1) Nuucistolpain)
	then severe three
- Y	
	Al filtra e di Bankanta i Saakii ila ila mahan makata di bila kasali. Makata di bila kasali di bankan mahalika

exer if n= Head (Head (list of Paire)
the 4 112 mas trans
this xums TRUE.
elle sutur seeun In (noch, Tais (15) of Paire)
Maki Pairs (115+, parir)
11 New Crist)
thin section ()
eur ruins cons (Hallelin (Head (11827), parens),
Mari Pairs (Tail (1151), parco)).

.

	PROURAM
	child Cs. 6
bi	Child (6, A)
Park of	(B, 2) triple
	child (B.A)
	CHUB (A, E)
k 1	chud (c, P)
	chird (O, E)
	CHIM (E, el)
	Path CA. e. [AIZ]):- /" to find the part from 1001 to leaf"/
	(Nud node (A, el. 2).
	Chidnodic A. 4. [6]]:- 10 to disamine which a noon is ched of
	Othor 1/
	chud CA, e).
	Christog (A, e, [x11]);-
	Chied (A,X).
	Chudnode (x, e, L).
low.	
(F)	