1	11/24	weak - 4
	3h)	Chacular Queue
-	_30	
-		#include < Stdio.h>
_		1 da Estate
		# define size 50.
		# depress
		int gesize]:
+		ent bort =-1,
+		(nt 25 Full ()
1		
1		{ (front==(1ear+1)-1.513e)
		if (Jaon)
		ξ
		returnos
		3
		else
		ξ .
		return -1:
		2
+		12.
-		
-		Put Istuphy()
4		3
1		Py (pront = =-1 & & sear ==-1)
		3
		neturno;
		3
1		else
		2
1		return -1°
	36) EX	

	PAGE EDG3
	Yold Enqueue (fot x)
1	\$
	ent item;
	8/(IAFULL ()==0)
	£
	punt ("queue ourylas 10");
	rehun;
	else
	3
	Py (25Emphy()==0)
	\$
	port=0;
	Near 20;
	3
	else
	3
	rearz (reart) 1/0 size,
	3
	g[read=x;
	3
	1
	Put Dequeue ()
	\$
	ent x;
	2 (2 s Empty () = = 0)
	punt ("gueur ounderflow in");
(Pa)	EXXY.NBB 56
V	
	\$ (post = = xecr)

2=g[port]i front =-1; sear = -13 x2g[pont]; port=(port +1) 1. Size; return X: vold obsplaye) Pot ?; ()(ISEmply()==0) printf (" Queue is emply In")? else print/ ("queue clarents: \n"); palleports ? = sear; r=(+1) % size) punty ("%d \n", Q[1); prenty (".1.d In", g[?]);

void main () Sat choice, x, b; while (1) pusaff("1. Enqueue, 2. Dequeue, 3. Desplay. 4. @xit \n"); pural ("Eder your Choice: In"). scanj (" of a", & chorce); switch (choice) case 1: prenty ("Enter the number to be Ensented Porto the queue \n'1); scart (4% d9, (x)), Enqueue (x); be Dequeus(). purity ("I'd was removed from the queue his, breaks Case 2: Display(): breaks punty ("Envalid input In"); default:

	output:
	1. Enqueue, 2. Dequeue, 3. Desplay, 4. Exit
	Enter your choice: 1
	Enter the number to be inserted into the
	queu: 23.
	1. Enqueue, 2, Dequeue, 3. Desplay, 4. 8 Kit
	Rober your chosce?
	Ender the number to be Ensended into the
	quere: 24.
	1. Enqueue, 2. Dequeue, 3. Display, 4. Exit
	13 ter you chorces3
	Queue denert: 23,24
	1. Enqueue, 2. Dequeue, 3. Desplay, 4. Exit
	1. Enqueue, 2. Dequeue, 3. Desplay, 4. Exit
	·
,	

PAGE EDG3 Engly linked list. # Bolude = stdio. N> Traclude < stdlib.h> struct node Port data; Struct node * next? vold alsplay (); void Pasent begga()? void Pasent-ender; void Prosent-posis; stauct node & head=NULL; yord desplay prenty (" Flements are " ! In); Struct node *ptx; ? (head==NULL) print("I est is emply 12"); setus? else pt=head; while (ptx 1=NULL) print(" dod in; ? ptx -> data); pta-pta-)next;

Void Pasent-begins temps(Struct node *) malloc(sizeof (struct rode) Struct node * temp; pully l'"Enter the value to be Ensented In"); scarpered, Etempisdata); temp=>next=NULL? ef (head = = NULL) head z' temp; else " temp => nexet = head; head = temp; Void Enseut-end() Storuct node & temp, & ptsi; temp=(struct node*) mallo e(size (struct node)); printfly Ester the value to be esserted in"; scary (40%d4, ftemp >data); temps - Snext = NULL; ef (head = NULL) head = temp? else pta=head; while (pta > next (=NULL)

PAGE EDG3 DATE: / / pts=pts-snew+; pho-) next = tempo; yold fasent-pose) Put pos, ?", struct node & temp, & phr. pelatitenter the postion"); scarf ("dod", &pos). temp=(Struct node*) malloc(size of (struct node)); prentflienter ten value to be ensented in"); scarf (" olod", & temp->data); temp -> next = NULL: elchor==0) temp-) next = head; head=temp; olse parciso, ptashead; ?cpes-1; itt) ptx=ptx=>next; temp -> next = pta -> next? pts->next=demps reg d main co

Pat choice? while(1) prenty ("In to be ensent at the beggenong to 2. to Possent at the end to 3. to Prosent at the parthooto he bodisplay to s. exit In"); herof ("roter your chorce: In"); scary (" old , & chorce) ? Swiften (choice) cases? PARUL-begin(); break? (0) 02? Insent_end(); break. case 3: Pasent_bosco, break; case 4°. deplay(); break, (ase \$: break? dea/w default: prenty ("Envaled thorce exists in"); break;

LINE FOR3 DATE: / / output : I do Pasent at the beginning 9. to Ensent at the end 3. to Prosent at any position exter 4. to display 8. to exet Enter your chopce: enter the value to be Ensented 23 1. to ensent at the beginning 2 to Ensent at the end 3. to Ensent at any position enter 4. b diplay 5, to out Enter your choice: 2 Enter Here value to be Enseited 13 1. to Enseit at the beginning 2. to Present at the end 3. to Enseit at any position as enter 4. 6 display S. b exit Eter to your choice:3 Enter the post for ? They tere valued to be Prosented 28 1. to essent at the beginning 2 to Present at the end 3. to ensent at any possition enter Party Miss are

	s. b exit.
	Enter your choice:4
	23,25,13
	*
-	
+	
1	
+	
+	
1	
-	
#	