Week -07	113/06/202,		
Johnson Frotten Algorithm			
#include Koldioins			
# include 28/dlib.n.	(1) 1 (1) (1) (1) (1) (1) (1) (1) (1) (1		
Transaction alternation			
int flag = 0;			
int swap (inta, int b) ?			
int \$ 2 +a;			
*a = *b;			
*6=+;	y A Committee of the Co		
9 + 17013			
int securch (int cornell, int num,	ont		
int g;	THE MODILE OF		
for (9=0; g <num; 1<="" g++)="" td=""><td>. 146</td></num;>	. 146		
if (ann [9] = = mobile) =	Day -		
return 9+1;			
elses diam and			
Hagtit;	,		
٩			
-1. \$71 9: CTana Avi Daminstones	tiest and a second		
return of	NA THE RESERVE		
"grant brown with the high to strong I			
int find mobile (int ann [], int di	EJ, int num)?		
ent mobile = 0 ;			
ent mobile P=0;			
int i,	dad a la company		
for (1:0; i knum; i++)?			
: \$ ((d[ann[:]-1]==0)	ff :1:0)?		
if Cansiciz > consici-			
Act all American Common the			
mobile: anor Eij			
mobile p= mobi			
9 else ?			
110g ++ 's			
O TO THE PROPERTY OF THE PROPE			
9			
1			

The state of the s	PAGE NO: DATE:		
	else il (catoons: 7-1) == 1) 4 i!=num-1)?		
	mobile = anstil; mobile p = mobile;		
	d'ag++;		
	9		
	9 ers e q		
	flag + +;		
	Callenna gri, made hat prisons will income were		
	Q A PART OF THE PA		
	: £ (mobile p==0) 4 € (mobile ==0))2		
	return O:		
	9 else 8 1 + B months		
	return mobile;		
	q PART PART		
	Void Permutations (int ansity, int dt], int rum)		
	ont o		
	ent mobile = find mobile (ans. d. num);		
y C	ind Pos = Seascah (ansi, num, mobile);		
	:+(d [ans [pos-1]-1]==0)?		
	swap (4 even [po8-1], 4 ans [pos-2]);		
	7 else f		
	swap (& ans [pos-1], & ans [pos]);		
5	addition to the temperature of the second se		
Paten Co.	lov ("ort "=0", " Raum; "++)?		
	i'd Canatist mobiles 4		
	34 Cararsi3-1==0)9		
	d [ann [i] - 1] = 1;		
	9 clse ?		
	9 d[ann[:]-1]=0?		

	STATE DE LA COMPANIA DEL COMPANIA DE LA COMPANIA DEL COMPANIA DE LA COMPANIA DE L	PAGE NO: DATE:	
	dor (:-0; :\num; i++)?	The state of the s	
	printf(" y, d", ansiti)		
dela la via s	as well as the second	koon maanda kultuur	
	3	MA PARTIES	
	int factorial (int K)?		
	int f= 1;	mos lasget com	
	ind : 20;		
	tor (°=1; °1 K +1; 1++)?		
	4 = 4 + ; ;	2 6 1	
	ď	1 8 1 8	
		1 + 8	
	9	1 8 0	
	A 6 1	100	
	Void main () ?		
	ind num = 0;		
	and 1, 2 = 0;		
	Printf (" Johnson Another alg	orithm to find ad	
	pennutations of	given numbers (n");	
	print f (" Enter the number In");		
	Scanf (" 7. d", Inum);		
	int arschumj, denum	J;	
	2 = factorial (num);		
	Print & ("total Penmuta	to on = % d 1 2);	
	Printfl'in All possible permutations are: in");		
	for (?=0; 2 < nem; 1+1)?		
	dC:3 = 0;		
	ann(13:1+1;		
	printf("or, d", anne	(7);	
	9		
	Print & (4 m");		
	for (j=n;j22;j++)?		
	fermutations (arm, o, num);		
	printf(" in ");		
	e of return o;		

PAGE NO: DATE: outfut : sonnson trotter algorithm to find all Permutedion et given number. Ender the number; 3 Total permutations = 6 All posible Permutations one: 1 2 3 12 7 1 3 2 3 1 2 321 · + HVU/AN 031 231 400 Whom 1870, inh of alternation without measured ") the of 11 5 - 10 140 - 1004 1240 ; interference alliany the projection