جرى اكل :sequerce Algoratums:repetition (selectio) Using The give Example 8condition (100ps) , Juli write on algorithen(pseudo coude) if, such, by i The to find the sum of any two note:giver numbers لطة البرجية حرم اراة لتعم الماسون طريقة اكل ر اداد العلية تجد سمه . - Ask user to ater first number. 1.1 read number and save as num 1 م ينمن الالكون الحل ممسرة . input Ask user to enter second number. processing i inter i read number and save as num 2. is le and line and save as num 2. processing [Add num 1 to num 2 and save result as sum output [print sum to screen (nood) anullig All Muntic (+, -, *, /, (2)) processing ingical of (>, <, =)

732. note !-0 0 T م فتعمة عدد صبح عدلة خر بالبوجية بعدل رع مسيع . 732 6 73 7 10 10 Ex:-0 3 25 ① 5%1=1 5/2 = 2 4 3 3 2 3/4=0 3% 4 = 3 א ענוש נהם בפר נש נטון הים "מו וצנו א. (a's give by busi # include (stdio.h) . abu our (neder file) < mark. 12) Tous isi isi is data taype:-, duar, float, double. . Temes or bird and give in a line of the second states and the second تررط سعية المتغ الحدض :- لا يجرز ان بترا برم . _ لا يو زان كور على spaces دىكن تو فه _ is int sun i' . space we and taype it in اي سي يعلو صف ارض الالذي يدا . ٢ / ٢٠ ٥٠ ٥٠ print f like the user to

-. . From the Example: --# include (stdio. h) stordart input and output. -2 + 1 zie and int maine -int num 1, num 2; varibles Utrasice, a int sum; Enter knowling Inchion 2 بعريناية كل عدة . () print f ("erter first number \ n) فالف تسادري من سن . The Skranf ("d", Shuni); (1) print f ("enter second number"); de integr. soul scraf (", d", & num 2); print f ("sum = " d, sum); retorn 0 3 syccess aler 26 www AUM I Meno . AUMI SUM -10+C :scieen. beter was enter first numper, compile (build) لانة لاب حر 5 other second numper 3 ليحتل المرتاح 10514 run D (etecatu). 100 خفا حسر استعلت - الذاكرة فتوي من Hraph annal . > soman errors intilities 114 - رافاً يدا العل من حة اسيس wrongs . USU ¿ USU, 'dis EX! · حساسة · x=5 j x = ×+ 2 i X=7

1 Exampel :-The second write an algorithm to find the area of a rectangle given the length and The second width . T Ask the user to exter the lenght. i C Bead the lengut and save as numl. T Ask the user to ater the width Read the width and save as nums. the area equal numberos numz and save the ruselt as area. Print the area to scleen to find max between 2 value :--18 (0,202) 14 the scien 10 else que scieen PINT we Else i fosseir s'iguis a cassi a End if ونسطع إنا فيزفى الرم الارل ممارنه الألم والدخر حو الاجم "الحرمن فيمسن " (n_1, n_2, n_3) P. Max = n, If n2 max. ordif Max = n2 if nz >max max = m2 endif

لايار المنة التوسطة "ليت الذكر دلا الأجخ " ٢٠٠٠ (٢٠ (٢٠
$if n_2 n_3$ and $n_3 > n_1$
pint no max.
if ng <nz <n,<="" and="" ng="" td=""></nz>
print ny min.
그는 것 같은 것 같
~ mid = (n,+n,+n) - (max+min).
strend 12000 grand in the second states and
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define [PI] 3.14 space capital letters is constat if is
prise 11 countral 14 com
l intrad j intradi
flont area, circum;
print & C"enter radius \n ")'s
scenf ('4.d", SEd);
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circum = 2" PI" radis
prive & C' area = % of circum = % of area, circum);
retorn os.
in the instance will a to
and the particular of the second s

Data tape:print f ("x = "od ", x); int X=3; scon f ("Yod". (8x); print f (*x=%f , x); flow x= 3.2; scon f (%f", 8x); print f ("x="/f", x); double X=3.2; sconf ("%lf", 8x); print f (* result= % (", gender); char (= (A); sconf (" Luge", & gender); Example:int age; char gender; prive of ("Enter age and gender"); scort (" "d , dac", & age, & gender); cher x , y , (c's space. X= (y's int X, yoz; char X: خان X = 6 : X= (b'3 -> x= y'

T. Airtuinetric Expression + tormula. 1 العليان التربية المالاذلولية ٢. الدين الأجف . Toppa Law 11 Example :-F $x = 5 + 2^{*}3/7 - 2^{*}$ $x = (5+2)^{*}3/7 - 2^{*}$ 3 = 5+6/7-2 = 7'3 /7-2 = 5+0-2 = 21/7-2 28 5 (2 S $\rightarrow x = \frac{y+2}{(y+2)}/(2^{*}(x-3^{*}y))$ ----2(x-3*4) - DAUMARAN IN LODI (span) Type casting:-int x; Hoat x; Man 3 x = 5/2; (2). x = 5/2; (2) X = 5.0/2; (2) X = 5.0/2; x = 5/20' (2.5) integr. 'Ei is 1/0 11 in x = 5.0/2.03 3 int K=5, y=3's => Z= (flont)x /y yo -Flant 2; = x /(Flont)y' 3-Z = 4/6; = (floxt)x/(flowt)y' 2-2 = 4.6/6' • 2= × % y; (x,y int) Z = (int)x % y's 3 when x that "type casting".

1 . (5 int) , (5.0 flont) . Error Type: $\frac{1}{1} = \frac{1}{1} = \frac{1}$ 2) run-time linte) (error). 3) logical error. 2. 5/2 - (2) if 2 int. دادة من كون باسم حكيان من (, ف ف) مانعيان ا ىكون ردى دە ٢٠٠٢ . 2) Z= X-9's b= 3/2); when 2=0. out out formations: Example:-E int x=12467, y=3; print f (" Yoch in Yod" x, y); E 11's be like ! 12467 - 3 7 - 304 1 1234567 _ 21 , CGGG1222 widthe JI -> print f (" % 7d % 4d ", X, y); --12463 -----3 5 20 514 E 704 21 -> Printf ('40-2d - 1/5d', X, Y)) 12467 1---3 2

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flort x= 2463.25497, y= -3.619; Print & ("10 - 8.1 f L 10 7.4 f. x, y)'s · ·/ - 3.1 f " 2463.3 ... = 3.6190 السأعن السار text Files (intro): + malls 3 1 الترين حانة مرية المراد. # include (statio.h) int main () int N, n2, Sum i ľ FILE . in , out ; ----in = fopen ('data. +x+", '("); the mode write or reach out = fopen ("result. + Kt", "w")'s (J) (J) Sconf (in, 401400, 8n1, 8n2); ausi in 2015 Ĵ Sum = 11 + 12 5 ' print & C' sum = Yod ", Sum)'s att date f print f (out, "sun = %d", sund's . Tomin up is f close (in) ; יה זיט וויישט געטיטו می ن المحر دادل بم نقد اک می ن المحر دین " File retorn o ; 100 dara . Hyt 11 56 nI S result. Ht 126 meno buffe SUMIL screen حلا الترين ممته ك Sum = 11 in Swm = 11 وساددا والحدا تكون تتده فزرى كالحسرال aiso as hours 11 عشر فع ز (f close (in) تنكسر الالعة , تحرر كذالا في العثوا 8 1

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		B	
Function:	المارة التدام الكون فيت -: علما المحال	63	
nockularity.	ج كما بنه مرة راحدة فقط دستيندم بعد والأ الحر من مرة		151
4 include (Stalio.n)			
int sum (int, int); Function p	robolgec.		
int main ()	المنه الادل :	P	
4		P	
		R S	-) (
$\underline{n_1, n_2, S_j}$	aumber (n ");		System
Printf C" Enter any two			
scan & ("Yod god', &n.		de	
S = Sum (n1, n2) = F	inclica call,	5	Sq
printf (" sum = % d", S);	مكن تكون الاساد متذارة مكن لا		Po
retorn o ;	102 N LELY WI TREET		ما
3	: 0. m - m.		fa
int sum(Int x, int n2)] die her die Jusse		Ex:-
1	along the shirt was I have a	E.	x = 5q
int res;	Fuction definition.	-	X = pow
(es = X+ 12;	1 . 2 Mar	F.	abs (-s
=) retorn (10);		I	abs (s)
4	3 **	T.	floor cs
		4	floor C
17 3 P		-	COA.
	and the second		ceil (-
		L	ceil (1
		E	

[3] П (2) out put (screen) Main sum [9] Enter any two number 5 151 4 [4] rg) 0. (es 122 nz 5 then Enter sum = 91 نتحة العلمة . ال retornios تعدين حدى العدية الأدى دادرة التحة الى الت ا درتاضد الا لم بازا ارتا ادخال Haut تعبع Rabs : دوله د= T System defied Function:- like: # include (statio.h) # include Knamy # include < mar. hy SQFFC -> Floor 2 int main () pow(-,-) ceit S abs cos T int X, y i fabs Sin R Ex:float 2; printf ("Enter x and y ln"); x = sqrt (16); _, 4 scan & ("6 1 4 2 + 56x, 8 3]; X = pow (4, 2); -, y2 1 2 = sqrt (Aw(x.2) + y.y) pow (y,y) abs (-5); -157 . 61 I التربي محانتين فراع ، 24° ، 24 التربي محانين abs (5) 2- 5] I. Floor (5.71) -15 retorn o ; 5 E \$1001 (-3.4); =, -4] 3 ceil (-4.7); _) -4--) ceil (2.6); _, 3 3 3

1 RARA # include (statio. h) : 6 [[] Void _ sum (int, int); int maine) N/W int ni, n2; spaces. Print & C'Enter n. n2 ln "); R scarf C"yedyed", Sni, 81213 K Sum (A, A2); => Fundion Call, K retorn os A statistics - S - statistics 1 Void sum Lintx, jatA2); int res ; (es = x + 12) print f C' sum = Yool', res)' E E The second stand of the second E out put Sum Main F TY IS Enter Mi _ n2 (a) ET ET E n × 02 12 res 4_5 Jover E Sum = 9 E

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# include (statio.h)		(H. Joseph Standard M.
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en la	n nz rej	4_5
they had	(and	sum = q e) Enter
	100 A M	2

Humeuryk:- y= 3x3+2x2-5x+3 SF # Include <stalio> int cube cint); # math. 4) 3 int sqr (int); int findly (int, int, int, int); 3 int main() 3 4 int a,b, C, d, x, int y; 3 print & L'ater a, b, C, d, x \n"]; 3 Sconf (" dod Hed Yed Yed " Sa. 86,80, 8d, 8x); J = findly (a, b, adx) i price { ("y = "/d", y); letula 0; Jacobie Brancie 3 inf Bindy (int a, int b, int coint d, int x) -int y's y = a" (ube(x), b" sqr (x) + c*x + d; (churn y) 3 3 3 31

E M. S	and the state	
int cube Cint x)	South 25 Stratement	
L. Germany Dominan	inter solio Lar	
int c;	(42. 3.27 3.23	
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int sercint xj		P
int s;	Ender and the second states of	
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leturn SS	The same same and the	43
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relational operation: Selection :-• if (grade >= 60) les than. 4 1) greater turn. pintf (pass"); > 21 equal . ele 31 = = ies or equal. print & ("fair")'s 4: 41 greater or equal. المعترية ل بعد عدة الرط الحاصة و إذ >= 5) not equal. درجر عال لا الما تتريان كل مدا دى يرتم ا حرة فتلا 6) 1= · comertice:-م تكون عل له سموم أو مارئ الكر 01 11 دلا محرمه الدرناج انت دالتنفيز 11 * / Octe:-X = 5 . X= 3; · if (x 12) · X:55 18Cx= () / ()=x781 - 18 CX). 18(x= 6)~ عاهذه الحالات مترم البرناع متطبيق الكرن ويعطى (٢٠٠٠) بولا برل مذكرة كالكرد · ×.0) X = 0's 18(=0) it (x == 0) - 114C باحده المالة معل مراتطبيق الكور ديدهل Hrue فالا الفان بن النظين ما الفاد عادة حب انار (==) تعنه متارنة عنارناما بداخ دلا يعتق الكرد لائه منخ الما يكون شاع ار (١١) ال (١٤) ٥٩ مامر عرف مذته نكون شارنة ناجمة (0) 0, 00

Exy	
write a program to change a given norke (0-100) to a letter	
grate (H= 90-100, B= 80-89, C= 70-79, F= 0-69).	
int markes	
Plint f(" Enter you'r mark (0-100)");	-
Sen f(" Yed", & nork);	
if (mark >=90)	
print f(" glate is A ");	-
ere 16 (mark)= 30)	1
print & C " grate is B");	1
else if (morke 769)	1
print f (" grate is c');	1
Cl Se	
print f(" grave is F");	
print f(" see 4 next semester ");	
4	
print & (" bye") 5	
pine (bje je	
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<u>i) </u>	Nor		بت الانوى	مرببًا تحن ص		- ((X an
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3) ()	or	×	9	x 489	XIIY	1x	17
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	and the second second	<u></u>	T	Contractor Contractor			
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Short cricait :-X=S, y=7; • if ((x)2) ((y==3)) • if ((x<3) (8 (y==5)) Jul KIIX & KAYX P F • 18 (1×>3) 88 (y==6) • y=z; T 88 F = F - if((x)3) 88 (y=6)) T (y=6) 24 (رائل بعدية المراج ، ماذا المتنج البرناج اللاغ ددن الحال العلية معل 17=21 F Timer that clicet first Swirch :-• if (Val==1) · Switch (Val) printf ("one /n"); case 1: pritflione in); esse if (val == 2) break's print f("two (n'); case 2: printy ("twoin"); bicaki Print & (unknown In")'s default: plictfl " unknown in note:-I are & care is so break je, as -4 العدن عدن عدارة الخدى عد ماد معد ماد معد البرنا، عيمة الحدة , حيث لوانه أكل المام بطبحه كل 971 - نقر علق الله انعد المفن من على إذ تحدة بين : ر) در تکون الاس عدین التان می مول مسادات . · الد تتبل كل العرب ملعل في تبكن نعامن لوعي الم · chor د المحدد الحالي الم الم الم

	and hadded
char letters	
prints ("Enter letter In");	i theman the
sconfl "_ re", & letter);	Space
김 것은 것은 것이 같아요. 그는 것이 아버지 않아요?	"Il'i) it's wrong word
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بعض فيه عمم أل مسطع المكاد من	
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	he tated class, tanta caliband
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1 min child branch with	((mara) 13-13-21) \$1 18"
switch (letter)	
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ase w. print & C " letter Y.C is a wor	
defouilt: print FC" letter Y.C is not a	
action of the second of the second	

intr is Even (intrn)	• 4
-{	1 (nº/2 == 0)
int result;	return l'
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er	
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$\Rightarrow \begin{bmatrix} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	المحرمحة من أدل حيار
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companel + nested if . a $x_{=13}$ $y_{=12}$ $x_{=3}$ $y_{=2}$ $z_{=5}$; -- if (x<5) print & C"one (n"); one one if (4510) two two y print & (" hursh "); four for . firee . tilee else first & C"typee (n"); four four F part c" for "1: in the second and an formally and and a linear Wt X=13, y=2, Z=S; if unes) 1 else plist C three); print & C'tour' 1: Active and the second second second second Le charge de la company de la company de B d as read + 3 to

Enter two number 5 6 int ni, nz; select action: int choice, result; prints ("Enter two number"); 1-add Scaf(" dod yod", 81, 812); 2_ Subbract. Print P C"1-add In 2- subbraction 3- multiplyin"; 3- multiply-Scart (' yo d', & choice); sw) tch (choise) Case 1: result = 11 + 12; breaks COS2 ! legult , M- M2 i Dreakis Cas 3: result = n1 n2; part (" result = 4.2", resultis الأقوك . while, for, w/while. pops: @s; J witial voure. · X=5 white ((xx=10)] condition (final value) X=b メニオ Pruff C" @ yod X is X - 8 X++;] change. X = qX = 10 I cirol X are e pruff ("bye in"); bye

2-+ post increment: x++; ple inc : ++ x ; 3 in the X-tage Company Pust dec · X=2; 3 X++; X++ -) 3 price & C'X = y.d = x > 3 1. 5 - X - 23 - 30 - 30 - 1-5- 5- 1-2 y=x++ ; ++ x; x++ -3 y=2 ← → y=3 Printf (* X=×.d*, x); ++ x -, 3 3 The freeze is to extend the t in the second s while (0+ 23) العان باللة الأصلية (x-z) . (x-z) 1 دمخ الديد (د = ٢) Y took (and in the second n, X= 23 4+X State) roll . Pridf(' Y.d ', X++); 2 3 (.... ---prist ("rd; x); 3 3 -X = X (y) at 1925 ASI I Sawil -X/=4 3 15

1 Se . ترا ادل مرة فكا لمرح اللون . X=1; for (x=1; x(5; x=*) C while (x<s) printf "mi /n-); C يستعدم عدما لد نعم البرالية والمنادية (عاندان) E E X** ; 1 and the second second second second Ex: 1, 51 -> 1-2"3"4 "5 · int result = 1 . int result fils o jeit and joins. 2 n j=n j jeli ulije (izo) while $(j \leq -n)$ E (esul - resul n); result - result "I's or result "I's i-- i . j++ ; [(5: 1'] =) - 12:2 = 2 3 = 6 . Sur (j=1; ign; i++) . 6 4 = 24 result = 13 = 170 -(i+=2) 12)ailip ju -

Ext		
		date and the date and
The second s	result = 13	· (cs = 1+2 = 2
	()	= 2 2 = 4 (i=2)
	e (i<=y)	= 4 2 = S (i.g)
	and the second	= 8 2 = 16 (i = 4)
and the second	result = x;	it allow said It line
	1++ 3	il ame dat 12 2 2 mil
j j	a transmission and an article	i deserve a perio
	1. Such " It want had a summer of the	6 F F 1
EX: J	Auisor . N= 20 -> 1/2/5/4	110120.
		مر م
bor L	i=1; i < 1 ; i + +)	• 1
	it ((n%1) == 0)	2 Larriste . Co
£	prist f(+ An , i) >-	2-10%34:0)
3	Sum = Sum + 1 3	ч
a :	print = ("sum = ".d", sum)'s	5
a		10
		20
2	and the second	
9. 9.		
Distance and		
	and a second second second	
2		

Er ht murk, sumso, i's Heat aug; 1=1 3 سانا و نوسون . ندیدن الا در دی طلاب (i <= s) جانات 5 المازدان عد الحر از أعر لديد من الاله Print & ("Enter markin"); Scorf ("Y.d", & mark); Sum + = mark ; 1++ 3 9 aug = sum / s.o ; الم ما مرض إذا ارضم المحدة يعمل الروس الدندر محدر (١١) (٢٠ العمار الع العمار الم -elis garrid · priming tax pump.

-• while (mark 1=-1) print & ("Enter mark In'li Scarf (1/c ch , & mark); Sum - sum + marking sum = 0; Enter cont = 0; Go prist & L"Enter mark or -1 to stop In-1: sum = 0+60 = 60 scaf('ted, ' & morke); Out -1 3 while (mark 1 = -1) Enter for the second stand with To 3. sum = morh; Sum = 60+70 \$ 130 3 contit to sold court = 2 E? Printf ("Enter mark or -1 to shop"): Enter -. 3 scorf (41.d4, murk); -1 J get the same in the second aug = 75.00. if (cont >0) 3 1 aug = (pleat) sum 1 count ; 2 Printf (" augs 4.24", aug); 9 3 3 ese pristple so nork estern 1; 2

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- do (while : int num = 32462, court = 0; int num = 32462, cont = 0; do while (num>0) [. cout x x x x [5] [Ourt ++ ; court++; num/=10; num 1 = 10 3 = num = num 10; 3 Z printfl' court = 7.d", court); while (numbo); Print f L" Court = 4. et, court); NO FES تفذعرة راحدة ممالاً في داغة ! عاندامه / حام وتكون تين تنبيز عدة عانيان الرعندادخلادم لا لحقق سرطعاليك Ico (cart) javaisus · break and continue: break: continue: X=23 hi hi while (xC6) bye by 1 hi print f ("hi hi ")'s hi Carl by if (x==4) bye Eurosunici breaks, continues hi hi x++ ; done. Jacki. S. V. me I I Shall printf (" done (n ")) , continue 11 me (x+x) articles infit loop.

X=3;	3 d astral
while (x++ <=10) (distantinger and	
(al and the first and it al and have	55
prist & (' t. J , ++x);	1 mus & 5 2 + 1 > + 10025
if(x==f)	BIR CIGAR CB
breaks continues	ing i byen being lu
print F(" y. An, x++);	5210
) jant itagin daniig to	byey
print & (' byeln");	• here x = 12
	يو دخر ال م ٥٥ يكون
Jested Loops:	In data south an est
int num s	int num, i;
int is	int prime = 1,
Print & C"Enter ony number (n");	printfle Enter ony number ");
scarf ("72", Enum);	scorf ("Y.d", Exam);
for (i=z; i <num; i++)<="" td=""><td>for 1: 2; icnum ; i++)</td></num;>	for 1: 2; icnum ; i++)
if (mun 70 i = 00)	if (num %, i == 0)
print f (" it's prime")s	2 Prime . 03
else	breaks J
pring & (" it's more prime ");	if (prime)
an an other a call i also	print f (Yid is prime ' upon);
· من منه منه منه من من	

1 E Bundlion J, p' in is is in line 12 int min is not important in the main function , is in print & C"Enter ony number (in); (int num; E scarf (" 1. ch" Brung); for Chumal; num <= 100; numpted E if (isprime crum)) if (isprime crum) Printf ("" d is prime " num); Printf(" dln" num); F else print f (" Y. d" is not prime" num); E ierurn 0; El 100, 16 plime 11 250 1 E int is prive (int n) i i ma da E ill is setting the E for (i=2; icn; (++) E i} (ny.i ==0) (http://www.chatta 1 return 0; E seturn to F J' maine in to - prime States. Note State Conduct of it would and a filler E Wash Sond Still & Sons the second s E come and the in Larry Alama

.

1 Drawing a one dimensional a stars (*). for (1=1; i<n; 1++) T · con in printf (""); or printf ("""); . con is prowing a two dimensional oxn stors (") • for (i=1; i<1; i++) . (ن عنو بالعنو ف تختص بلاحمدة عماد في الصوف . (++ ز د مع ز ا= ز) مع prist ("A"); i'i autocianit printh (-wi); Wongles: · for (1=1; isn; i++) . for (1=1; isn; i++) the second se (++i i n=> i i => for (i=> i i=> i i=> i i=> i Print & (* "); print & (" * "); print & cin 5 pinef("In"); a part of the second of the second second and the second s and state in more thanks of the state of the ASSAL I LARDANA ett at the back of the ¥ # ÷ al min In have \$ \$\$ \$ -. N=4 653 -1

lor (1=1; is=n; i==) for (k=i > k < n > k++) printf (" ")> for ()=1)(i=>(i++) print f (" \$ "); part C'In"b Homework: ing jjk, n=7 > www.kk for (i=1; i <= n > i++) KAKBK ARKS for (k=1; k<i; k+*) KKN Printf (" '); hor (J.i; j <= n; j++) print & (" + ") i printy ("In");

1 3 wt i. j. k; 1 int n=4; P for (1.1; ic=n; i++) 22 333 1 for (R=ijkenjk**) print f (") is a stand good and and Por (i=1: j<=i> 5++) print ('Y.d', 1); ('Y.d', T); 123 printly ("11"); 1234 the states Print of Small and using 100ps to Read from Riles (EOF char): 1 scort + fscorf : return Value. انالی ن . x او x لاحتر ۲. x فیکون ۱ , اذا کان ۲. لایکوں انزالی بری Status : O 2 ist status = sconf ("Y.d.Y.d", &x, &y); printly ("Y.d", Status); in working write a program to read on inspecified number of grades from a file and kind and print the average grade -

ł	
int Status's scort / scort is jui	الا
int grade, sury =0, count = 0)	e Rada Sala
Acat aug;	and a second a second
FILE "in 's	
in , fopen ("grades.txt", "r");	• 70
Status . fscorf (in, Y.d", "grade);	60
While (status 1= EOF)	ବ୍ୟ
1 can a trained the second state	=> AUg grade = 70.00
Sum += grades	- Marine
court + + 2	
Status = fsconflin, "1. cu, & grade) ;	and there is man channels
2	Prove and Provide and
aug = float (sum)/cent's	in and the second
prints (" Aug grade = 1/22 ", aug) ;	
return où	
return os	
)	
a and the second of the second sec	

5 for i=2, j=7; Lizs 86 j>3); i++, j--). 1 Bird & Chello In "); 1 i=2' DETTOR X SUR SUR JANA while (ics 88 is3) print & ("helloln"); 1++ Same Fill and the Business of the Barrier States تَعَرَ مَحْلَ المَوْلَ الْعَالَ الْعَالَ الْمَعَانَ الْمَعَانَ الْمُعَانَ الْمُعَانَ الْمُعَانَ الْمُعَانَ الْ vhile (1)-A) President alter with the second secon تقرأ ١, ٥ مركب الم اللون ، (٢ = ٦) כנהו קיי יווי יצרו שיוערט כווברטוטיסו (FSI) שיואט احرى تيت حرط (ن) 1 purfection (20) il site and a second State interestion & pageot the state in Date J management is a second second state in a second second 1 ++ bot man from a sale and setting to a sale Ż 1 Par Carage 1 17:164. + Lot) 1153 --3

1 E ponter:- dynamic addreses , optionities i C or aller 24 to 20 int X=50 E ق التر (X) في التر · it is distanti x yelling : (x8. " 6x0") quite and . Pointy Nie a we put (4.p). E => int ka = 8K = int y=7, int x=5 - static . The FILE (in's File . 13 Polyrow i x y Ma - dynamic is aple F 2000 a = 843 N.A ing a=3, b=s, c; => 10 ALMA . · ت المان ، في المان من المريد ، في المان . a []] (3) 100 200 300 Hach Prick (" Kel", 86 13 200 E printfc Yed", X1; 200 Firf(Y.J. Ox); (X) jugar 5 E (= a inderction * pointer lans, inderction * E y=86', E nore: Prive Ex. or, my)'s 3 if we but \$x=10's سترم بعد في (5) ديفوبدرامي KX = K4 ; E KX = KX+7 > 10 ٥٠ للدي المعام محتر ولس E · (8)/100000 Print ("1, d ", b); 10 E L

int x= 7, 2=2, 45 x TY JE ist Nb= &y, Na's 9 221 2000 3000 1000 River ("4.2", 84); 2000 traun a = 6x; Psint & ("Y.d", wal++ 1's 7 y= +a+2; Prive (1/2", (y+x) 1; 18 prist & (* /. d", * b) i 10 ×a = xa +2; T print f ("red", x)'s 10 B' # include (Statio. 4) F ict ops (int, int *, int *); int *; output Usid int main() parameters. 3 int K= 5, y=3; 2 jet sum, proch, diff; Sum = Ops (x, y, Gprod, G diff) ; & sum print & ("sum = yed prod = yed diff = yed); --retwn o; P F T Void just 5

1 1 int ops (int a, int b, int mp, int Md) int MS -1 1 *P = a*b; rd = a-b's -45 : a+ b> return arb ' X ٦ main autput. ops -S Suns & prochais diff=2 3 3 ত্র 5 6 EL (IS) 18) Sum diff 0 a Prod . والمع تشرای محان بالذاکة , بان ی تشطع ان شری محان E No. F E 1 proven F E C F

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• • Void ops (int, int, int a , int a); => . ist main() rat super, prod, Kes, y. 7; ops CX, Y, Le sym, Le proch); printf (" Sum = 4. d prod = 4. d", such, prod); letur on os 11 1 1 1 1 void (ops inta, into, int +s, int +p) int trips *5 = q+b; Hmp = *5 = +p=a =bis = = trep ai Ś J sam the set of the s void ops (int ", int ") > int main() (At RES. Y=7) int prods Ī. ops (&x, by), print f ("sun = Y. d prod = Y. d"), X, Y); return of 1 1 14 1000 igned day

Void Lops int is , int ip) F 1 int tmp, tmp2; tmp= +s ; tmp 2 = # p's #S = tmp + tmp 2 i "p = tmp" tmp2; 1 swap function: X= y;] it's wrong. y=x; J you must use a temp value as follows: · tmp=x; (=) void swapcint int 12 int main () x= yi alt was a set in y= taps E int x=5, y=7; F · pourer main un swap (x,y) (print P) ar is in the in fint P(" X = Y.d. y= Y.d ", X, y) > E · eturn os F and the first of the second of the second of the second E Void Swap (int a, int b) > E int temps E temp = as a=b; C b: tmp's F ٦.

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1

=)	Void swap (inf ", int ")
	lut main ()
	the second second second and have the second s
	L We KES, YoTh Million All Million and Annual Annual
1	Swap (8x, 8y);
	plint ("x= y. J y = y. J , x, y) >
	return o;
	Just Conditional a shadele N IK - Bright the
	Void swap list "a, ist "b).
	and the state of the second
	ut emps
ala inter	priviple a= y.d b= y.dhi, ka, kb];
	tmp= ma;
	ta: +b; ilgada bruchtore
	rb : tupi
	plint & C" a= x.d b= x.d w" 1 *a, *b];
	James M. is Mar 1
	in the second and a second second
	and the second
	E et a "killering

Home	Dute 1-	- marine and a second
do the pro	grave wifer this function :-	1 3.50ma M.
1. 14	main - max (int, int, int, int +);	
2. Void	main - max (int , int , int , int ");	State to the
3_ Void	main-max (int, int a, int a);	ed and a spectrum
Global Var	labels vs local voriabels:	
# inclu	le (stio.w)	10.0000
int X=	o, y=7; //global	5
Void	doit (int. jut 1's	العنور لايد
int .	manin ()	<u>}</u>
i	int a= 2, b= 3 ; // horal.	literate pair
	doit (a,b)',	Lat and Maring
	x++; //x=11	int god
	PRINTE ("7. d. J. d. y. d. ", a.b, x, y);	de c R.M.
	(etwno;] 2348	Rei grant a fr
Void	doit (int () int d)	print \$C" and
a provide a	intx; 4 local.	mand the C
	X= C+ di 1/ x= 2+3=5	
	y++ 's 8	
	priv+f (22d", 95) 7 5	

=>	* include (statio in)
	14t Q=3, b= ♥ >
	int one (int, int*, int*);
	Vojel two (int, intr) i
	Int maine 1
	4
	Int x=6, y=2, b=10, j
	a= one (y, &x, &y);
	print C" Y.d Y.d.Y. dly, X. y. b);
	two (a, 870;
	pring("Y.dx.dx.dx.d",d" a,b, x,y);
<u> </u>	return o;
	graf Street Clark Clark
	int one lint X, int M, int + ()
	The bar is the second
	MA = +C+ 6++ 3
	NC SANASS : (MASS - 1930 W
	a rea++ poly let has special read and
	return at an ; }
	Void two (int d, int as)
	a transferrar and a transferrar and
	*5 = 01 + *53
	grimp("Y.d y.d y.d h ", d, ++ b,a);
	3

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global	Mais	One	two	output.
12 7			N. An In S.	\$ 13 10
I G	8 13	TZJ X	(The) . 40 / 0	12 8 12
a 6	× Sep	× n	d S	12 10 201
		c)
			a sur à	- harl
12 3	X III III X Y b	il p	PULL EDS	66 5 4
0 000	× y b		Harley bar 1	Plants
10	20		1 (083)	
				1
Array		They doe 11	SCHALLSEN'S	11. a
	ημης [5]; [2]= 10; [3] - αμης [2]+6;	0123	y ko	m o -> (n-1)
int num s num s	nums [5];	0123	Tr Sub	n o -> (n-1)
int num s num s num s could	Nums [5]; [2]= 10; [3]= nums [2]+6; [1+3]= 17;	(i + j + 3).	Tr Sub	n o -> (n-1)
int num s num s num s could	nums [5]; [2] = 10; [3] = nums [2] + 6; [1+3] = 17; y be equition like	(i + j + 3). (i + j + 3). (o + j + 3).	Tr Sub M kro	A
int Num s Num s Num s could Int	Aums $E5]_{j}$ $E2] = 10^{3}$ $E3] = Aums E23 + 6^{3}$ $E1+3] = 173^{3}$ U U U eqation like AE4] = [5.6.2, 10]	(i + j + 3). (i + j + 3). (i - j - 3).	7 Sub 9 Wo 6 2 10	A A A
int Num s Num s Num s Could Int int	nums [5]; [2] = 10; [3] = nums [2] + 6; [1+3] = 1+; W eqation like A[4] = {5.6.2, A[4] = {3.44; A[4] = {0 ;	(i + j + 3). (i + j + 3). (i - j - 3).	7 Sub 9 10 10 3 1 1 0 0 0 0 0 0	A A A A A
int Num s Num s Num s Could Int int	nums [5]; [2] = 10; [3] = nums [2] + 6; [3] = nums [2] + 6; [1+3] = 17; [2] eqation like A[4] = [5.6.2, A[4] = [3.44; A[4] = [3.44; A[4] = [3.44; A[4] = [3.44; A[4] = [1.5.2;	(i + j + 3). (i + j + 3). 10 5; 5 	7 Sub 9 10 10 3 1 1 0 0 0 0 0 0	A A A A
int Num s Num s Num s Could Int int int	nums [5]; [2] = 10; [3] = 10; [3] = nums [2] + 6; [3] = 17; [4] = 17; [4] = 17; [4] = 17; [5] eqation like A[4] = [5,6,2, A[4] = [3,4]; A[4] = [3,4]; A[4] = [3,4]; A[4] = [3,4]; A[4] = [3,4];	(i + j + 3). (i + j + 3). 10 5; 5 	7 Sub 9 100 3 100 0 0 0 0	A A A A

1

1 -# include (statio. h) # define \$ 5 60 4 STR STE D Call 70 int main () : 1. 90 IN BESI,is 30 int mark, min; sum=00 100 float ang; 3 for (1=0, 1< 5, 1++) ß 2 3 print & (" Enter next marke In"); B scarf ("Y.d.", (BE13);) B Por (i=o; icsii++) B Sum + = BCIJ; aug = (float) sum / S; Min: BLOJ -by (1=0 : izs ; iLL) if (BEIJ) < min) (Min) min = BEIJS (Lizz Chra) BI boy (1=0; i<5; 1++) • Rimt (117.01_1,0[1]); printp(" aug = x . 2 p", aug); -Prink P ("min = Y. , min); 7 del return 0 > 1 1 to tradition 1/ and T J -

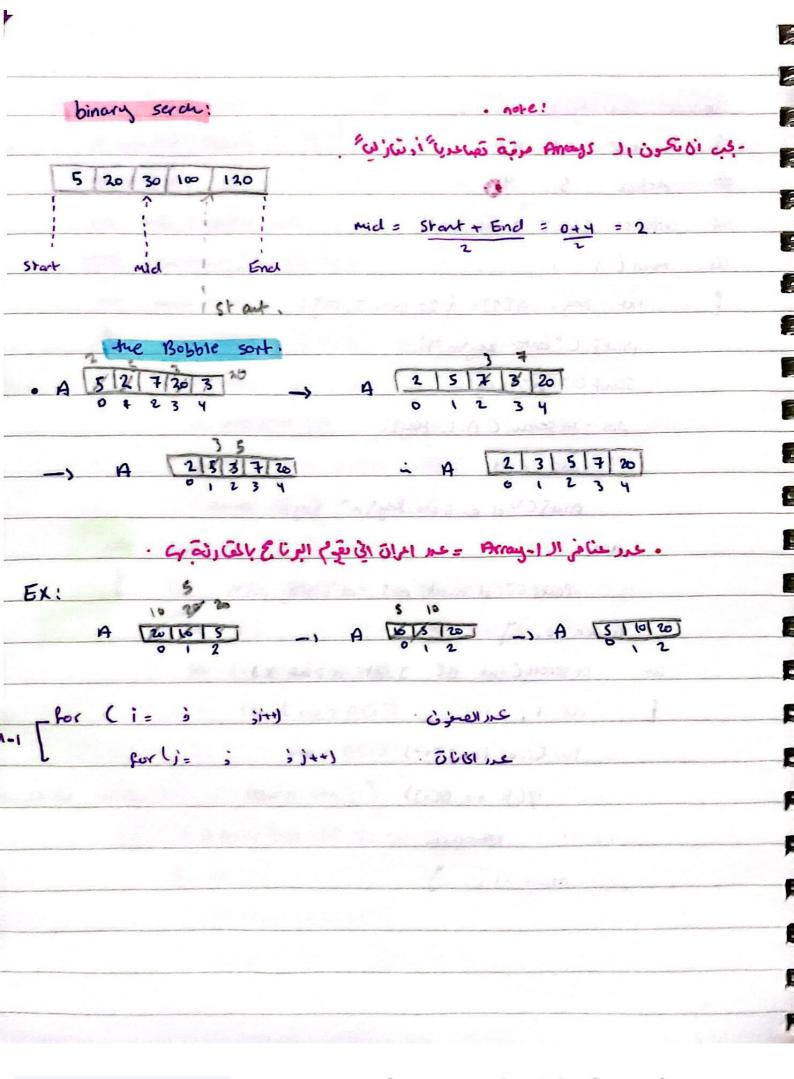
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Arrays in function :	main	min	Print Atray	output
# include (station)	4 5 2 7 4 6	B	×	5 27 46
# define \$ 5	~ 11	417-151		min=2.
int man Cint ED, int)		1 [2] 2		dia n
Tity print Mirray (int E]	, int)s		and a state	the A
int marin C s			Los A	
[int AES] = {	5,2,7,4,64	· Come	د. ال يدم د	-
int mis			1 1 1 2 3 4	1
	5)5 80[0]		الماريخ احا	ور الم الم
	1= X.dln", m)			2
]			
int min ciut BC .				
l int mn = BE				
int is				
			<u>*13</u> .	
$\frac{1}{1-\alpha_{i}}$				
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Mn	E BLIJ "	1. 211/34 _147.1-1 14	<u>01.01 est</u> 018 e	<u></u>
d be void. 10tw/n	mnil	<u>s. X. 64</u>	(Harris	
Ent print Array Cint	xe J, jut a	<u></u>	() Hang	
l lut is		c	Q in receipt	
for (i=o; i=	(n; i+*)		Ĵ.	
0 C * 4	d "JXEiJJ	4		

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benear search ; T 10 5 70 3 16 # include <statio.u> ids T 2 3 4 0 # define 5 4 3 int inserch Cint E J. int, int); T int main () 5 int key, AESJ = 1 20,100, 3, 17); J print & C"Enter key In"); Scarf ("Y.d", key); pos = in serce (A, S, Key); if (pos = = -1)pring C"r. d no such key In", key); . a ase a literated and with the state of the state of the Printf C"Y.d is at pos Y.d", Key, pos); 3: return 0; y 3 int mserch Cint BE J.int n, int KJ 1 int 1; for (i=o; ien; i++) ip(k == SLij)3 return is 3 return -1 3 3 3 3

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Multi Dimensional Array: nore: # crifine S 10 AE236335 Int Void reverst Arlay (intel , int n) rows cours . 11) int BENJ; 1 2 0 5 عكن تعرير ننس الج لاكر من وAlrag A203213 = 5; 7 ١ A EIJ [2] =75 #include <stalio.h> H # define 6 2 # define C 3 main C) int NACRICI INTERJECJ , I, J, SUMEDS for li=o; i<R; i++) for (j=0; j<c; j++; 3 f printf (Enter Value In"); 3 scan & ("Y.d ", & AEIJEJJ) 1 **.** for (i=osic R; i++) For (i= o; j<c ; j++) sum + = ALIJEJ en Diana

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to print value: - for min value !-MIN = ALUJEOJ, for (i=o;iek;i++) for (i=oii<ri>i+) (.for(i=oi)<c; i++) ->print ("Y.J. - , A Eisei); bor (j=oij<cij++) L. printfr ("In")'s y (ip(AEiJEjJ< min) at the end of 2th 100 p. Min = AEIJEj] ; 3 1 2 3 567 4 => # include <statio. h7 # difine R 2 # difine C 3 Void Filt Array (intEJECJ, int Fint)'s int main () [in AERJEC] = [[5.6,79, [2,39]; Print Alley (A, R, C); seturn of Children by March 3 Void print Array Cint PE JECJ, int (, int c) int is: aniissiissi 5 tor (i=o;ic(im) ℓ for (j = 0; j = c; j + t)printpe "Y.d ", ACIJEJ]; printf (" In") > y

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include (stalio. h) # clifine R 2 # difine C3 Void print Array (int E JECJ, int, int); Void add Allay (int EJECJ, int EJECJ, int E JECJ, int, int) i ILL A ERJECJ = 1 15.6,73, 12,337; int BERJECJ = [[1, 5, 2], [3,48]; int DERJECJ: novel Print Array (D, R, C); الم يكن ال معالم في الذاكة على تحل حمل . 123 add Arlay CA, B, O, R, C); reduct os 2 Void Print Arruy Cint DE JECJ, MA C, int () like the last examples. 3 Void add Array (Int AEJECJ, int BEJECJ, int DEJECJ, jut 1, int c) int isis bor(i=0; i<1; i++) hor (j=0; j<c ; j++) OEIJEJ = ACIJEJ + BEIJEJ >

1 Sun 100 2 \$76 FU 0 10 0 D 80 · For (1=0)ieR, i++) 90 100 1 3 1 ۱ x 100 for ()=0 > i<C; j+=) 105 Sum Ei) + = AEIJEJJ 193 ø ø K Sum 80 120 100 strings. E char name [5] = "ali"; SUME i] + = AEi JEi J. E null char. i (10) a ١ 2 3 4 1 0 a h Madlo name [10] = "almach") Are char => 56 8 9 J F name []= "ali"s char char name [5] = l'al, 'l', 'l' yora ali 16 1'a', L', '1', '10' Y Prints C"Y.S", name); almad · pruly ("Enter name h"); Suha (") Scorf ("Y.S", none) 5 15 4. 1h/a/0 8 none ESJ i) will

11 3 char name EloJo 1 inf is icold and 11 24 Print & C"YS", name) > in cart=0; Enter name. asad 1 = 03 uliele (neme Eij 1='10') as a d b 0123456789 i p (nome Ei J = = a)Carl ++ 's 1++;]. print PC " court = Y. d" , cent]: String function: char nome ([A] = "ani"; ther nand 25033 none 2 = none 1 : X rong word if none (1==ali). × if (nami) rain) . X Mar Abid Jord Chide Las 0 we use #include (string. h) for suring function. 1 stropy (_,_); is stropy (_,_,); -Streat (-,-); 1 Straat (-,-); 3 str cmp (-, -); (5) str nomp (-, -, -); 0 (5) strke (-); (5) strbk. (-,-); 1

1 E char S, EloJ = "ahmad"; U C duy S2 [20] ; Stropy (52,5,1; _) الالم الم الم الم الم الم ع ٢٠ ٤ ٤ ٤ ٤ ٢٠ الحد ان كور ولى معرد ولى المراد الرواد المرام الم الم الم D . 2 SHIncpy CS2, S., 233 2000 Usijuli Se[2] = 1/0'; - with nul just إذا اردنا دفع باسم S, abisibició (11 į. 3 abco S-1 Streat (S, S2) 5 E 11 (Y) hirst ____ Strnat (S, S2,1)'s E last . 5, @6/0/6/11 Stract (first, o 4); E Streat Chirst, Last 1, E 0 S F 21 mines Stramp - -11-2 +03 N 3 42 132 E if (stromp 651, 52) == 0) F (Stromp (5, 12)) 5,752 E (Stremp (5, 15,) <0) 5, <52 F F

1 T (S) stracomp (S, *ali *); T T Strlen ("ali") > 3 F T T, (ह) strike the most imported one · Char Hoken's ì Chev sent Eloojs Ľ gets (sat); + print ("Enter ony sentence in"); token = strtok (sent, c u); white (toper 1= Null) token=strhok (Dull, " ")' and the set weiter the way to the set بعلى على المار بنار على الى اسر ندر من " ، ، ، عمو of to leas no what is 2 1

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Enter	N	ome	•		<u>de in</u>	<u> </u>							
Ahna	de	s ha	mdon				0.2.0	. d	10.13		i stri	6	1
an	ma	14	0										
nos lies	ay in	\$	we	use	9	ets	insted	of	scab	. 4	112		(3).
				•	ger ?	s (na	mess		6 1.34	ed A	<u></u>	2	
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	iles	181	and least	2 10-2	What's	3.76	4 100		ilse	2.32	62		
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1 char Sat E100], Save ES]; Ĺ char token; 1 Char words TOJE 20]; 14 1=0,50 printly C'Enter ony sentence (n"); E gets (sat); Stropy (save, sert); E loker = strlok (set, " "); E while (beken! = pull) í. (1.42, mail marrie i de entre) detale a raide Ľ strapy (words Ei], boken), . <u>وٰ</u> ++ (pher = stripic (Myll, " "); E 1" " HULL LOUVE for (j=1-1 = j>=0=) E printf C"Y.S", words [j]) E return o's E F 2 F 1

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words. 0 19 2 1 h 6 1 e 0 # include (stelio. h) # include Sstring. hy 1 1 # define \$ 100 2 # define R 10 r 1 # define c 20 1 () At main (). Char Mok, int 1=0, int is I Chop Sent ESJ, temp ESJ; Ohar words ERJECJ; Print & C" Enter scritnicem); 3 gets (sent); the word! Stropy Cremp, " "); "the girl is smarter then the while (top 1= NUII) boy Stropy Cwords Eij, tol) tok = Strick (NULI, " "); jor (j=0; j<i; j++) if (strong (words Es'], "girs") == 0) 4 Strepy (words Ej], "boy"); esse if (strampy Covords Ejj, + boy-)==0) Stropy (words ()], "girl")' T lor (isoijeiij++) 5 Print & (Y.Si" , words Ej]) > return a:

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5, # include (station) 1 culd id name # define S 10. typelet struct i char name ESJ3 alightan 70.3 5-id i 1dt douped aug's J Stud-t's + void prest Stre Cstud-+)3 inf main () f shu-t si s2 = q'ali", "looo", · το"] ; Priveffe " Enter name, ich, aug og studet in "); (string = no 8) Scor & C "Y.S Y. d.Y. IF", SI. name, BSI. ich, BSI. aug li 3 BILLT& C" name =>. Sha", Sz. name); - Print strc (S,) > Print & id=r. alm ", sz. idl; I can but printsor cs. ji print-PC "any = >.1f h ", Sz. augli] leturn o; void print stre (stud -+ stu) print & C " name = Y.S \n", SEU, name.) > print H" ' I d = ". d In", Stu. id); print PC " any = X. 1 pln", she any); 1 9 1

1 => # include (stalio. h) . # define \$ 10 . we can but E type def Struct S, = Si in Structure of char name [5]; · but we car't Say int id [5] ; 18 (5,== 52) dapel aug [5];) stud-t: 1 void stud-+ fill-data (stueld) 1 int main () E { stud-+ s, s= 1" ahmad", 5, 70.3]; E x S. = Lill _data (85); let vn Os <u>4</u> 1 Stud-t fill-data () E [stud_t temps (Ben M. E.) E plints (" Enter name, id and any of student ham); Scorp ("7.5%. d.Y.18", temp. none, Stemp. W. Sterp. aug ") E E return yemp; 3 F and the second second Void fill-data (stud_t mg) F [print & (' Enter name, id and any of student hi) i T Scar & (7.5% dr. 18", "S. name, & +5). id. 8(+5). aug) E S name, & S-sid, & S-2 aug 3 E F

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11 Main Sill-deta S, anad lo 5 Fo. 3 S al march none and id Made Strand # include Litolio. hy # openine S 10 type def struct [Char name IS]; Int id [5]; dapel aug ESJ3 Jstud-to int is Equal (stud-t, stud-t); ut main () (put the statistic burger 1 student + S1, S2 = 1 "aumacl", 5, 70.3); T if (is Equal Cs, s2) Printly C'Same In-); return o; y P int isEqual (stud-+ S, Stud-+ S2) -1 return (stromp CS, name, Sz. name)==0 88 5, id == Sr. id 88 3 S, and s= Sr. and 3 3 5 2

include (stallo. hy =) # define S 10. Hpdger Struct f cher name ESJ; E int id ESJ ; E doupel ang ISJ; E I stud - t i inf main () Stud-+ students ESJ; int ich, glag=0; for (1=0'> i<5; i++) 2 printf ("Enter name, id and any of student ba"); Scorp C'Y.Sid X.19", Student Ei]. name, & student Ei J. id, & student Ei J. aug)'s E al sign Z. Bronner 1 1 2 2 4 April E pintol Enter ich of shudat In"); scorf Curia", Bid 3, E lor (1=0;1<5;1++) E if (student Ei]al = id) F flag=1; E print&C"name = Y.SIn", Student Ei]. name); E print & C" ang = Y. 28 h - stucket Eid aug is E bley Ko E 3 F

if (Stag == 0) print & C" no such id in "); nur noup nane 5 ìd id aug and ang 0 Langer (11) adjust, "210" 19 # neluce < statio. n> => # define \$ 10 typedel struct . 1 Over noure [5]; 2 int wids doupel sarry; J worker to contract and the int find worker [worker-+EJ, int, int); 9 Void printworker Cwarker-+13 -1st main () Salver a survey ٩ worker ISJ = 3 int 1=0 Size=0, 101's Ì print& "Enter name of worker or enough to stop in"): 1 scar & ("Y.S", wurker [1], name; 1 1

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. int findworker (worker-t wE), int S, int Id) i the is for (i=o; ies; i++) if (lat== WEi J. wid) return 13 Petwon -1; The test of test o void Printworker (worker=+ wsk) 1 " to a logo have been and a logo have print & (" none= X.S. W.", w/k. mane); print 8 Crid = Y.d In", wp. wid); plint & C'savary sx 18h, whe savary is Jaco hard the find and and the sector for i= Di i esize ; i++) Prive worker (worker []) 's ips in the stand in the part



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لاستان الله الله الله الله الله الله الله ال	int 1= 5;	1.4	عدمران الككابة	and sheet
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f close cout); result. Din. 8 8 8 16 917 abautors ì . => type def strut 1 303 1 char name [10]; int id I stud-to int main () " 3 X") \$ FILE " in ; Wr 0x(ES] = {1, 7, 2, 4, 6]; timbe -in= Soper al "data. bin", "Wb"); furite (85, sizeopestud-t), Lin); funite (asr, size of (int), S, in); 1 int avr2[10], size; fassecimi in= foper[daya.bin", "Yb"); size= fread Carre, size ollint), 10, x); T stories and 4 5 h t シー

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