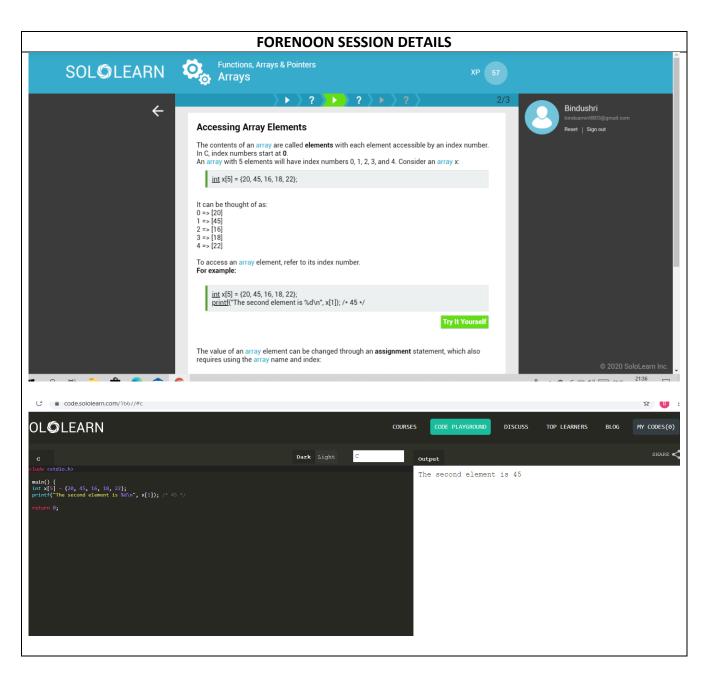
DAILY ASSESSMENT FORMAT

Date:	19-06-2020	Name:	BINDUSHRI
Course:	C programming	USN:	4AL17EC011
Topic:	Pointers		6 th A
	Functions		
	Memory management		
	Accessing structure member		
Github	Bindushri		
Repository:			



-7 State reaspubles Function parameters State cearpables have a local tuncion parameters are med Siche but are not destroyed to receive . -weren a function ps exped. bythefunction #Produde 28taPo-h> # Enclude Letder. h> ant sum up (Protx, Proty); vooldsog- heles (); Pht malu () l Port marn()d ant x, y, soult; anti! ter (9=0,9<5;7+7) X=3% Y= 121 Say-hello (); rejust = Sum_up (x, y); prenty ("olad+olad=olad", x, raw), returno; Suguer reald say heles Ol acturno, Pat sum-up (Potx, Paty) of of other ent_num_(alls=1; pringli' Hello number olodin", x 7= Y" return: (2); nun (all); num-allet+ rearrable Scape rearrable accepto refers to the Recursico function. westbelity apreariables with An algust the for bolding lu a poregoan. aproblem may be belt #include/std10.h> que globall =0% Purplemented reeping a process called recursion. 9 at marw) { Port special, lecal?; ex!- 5! = 0x4x3x2x1 # muludo < stato. h> 100001=5 put factoral (Pot num); Rcecas 2=10; Rut malu ol global = Daccell + lacal2; eut X=5; Point ("old In", global); Prenty C'the lattor Parololod is doch x, dactorial (x)); Lotuono, veterno,

Uspag Locops noth Array Ret factional (But Russ) & 11 (nam == 1) many algorithm require account receively ademant return (i); elle return (num * factorPar (num-i); Cof accassay theat purchases [2]= 10.99,14.25,90.504; Arrays Ruc A arrayes a data structure thread traval=0; that stures collection of eut k; related leaves that are ter (K=0; K<3; K+7) all sametype. -total+- purchase [r] ent text Scora [25]; Aloat prices [6]={3.2,0.2,10.2; Print| l'purcuous total 1.0,2.37 98 %6.2 [\n", tapel); Assending tray Elements -two-demoustonal Arrays the contents of our dosay ale Elements tucie demensional allayer our array #Rucludo ZSHOLD of arrays and can Restmate Of be through + of as a Red X[5] = 20,45,10,18,724; table. Port ("the seccound eleved Put a [2] [3] = 98 0/od/n",x[1]); ex: eut [3] = ? leturno, 93,2,64, y 84,5,204 cep 45.

clements aseug-nemeory As con parly aren m. + wedter torward toe a memory correction As chi really aces murnory - all the much backagand successions and perfer on memory feet a[5]= 122,33, 44,55,664; related operations. courts pointer But *ptr = NOULL; propers are very surportant Plet 9; eu chagramming be cause Pt8=9) they allow you to early for (1=0) 125: (++) \$ work with momery lecations. Printly ("0/0d", 2 (Alo+9)). Pointer-type * golentifes pointers and functions put 9=63 But * P = LOUL Void Sweap (Put & num) Puthing P = 6iRest mail U & Pojut ("The address of 5 90. Put X=25; % (24, "n/xolo Rut 4=100; Printy ("P contains address b) print (["x is olod, y is olod in", xx); swaf (&x, fy) Print ("the value of goo bdin, Polut ("x 150/00 14 is % od/n, x,v) seturno; Piral ("pasporming to the value 4 record sweap (luta numl, interior) 0/001 n1, *P); nut temp temp= + num!; Pointers and troays. sonum = drum?; Pointers are expecially I nume - temp; cerefuel with torays. In array declaration lung Susexues a block of contiques

the sprint and scant of spage & functions pointer. Junction Strug Aformatted stolling A storng per c es au array can be created with of characters that enas with neur character 10' Spring () function. 449 8 98 we full 100 Char str_name [str_lon]="striy"; Building a Brogn troom cother death char str3[6] = 1 he, e, 11, 11, 103 Streen() - get length of a stoly tyres Btr cat () - meorge two strings # nichedo Cotrpo. 4> Stropy() - lapy one stillyto But malu() aucothor. char info [100]; Stolment counter storup to cuar dept[]="HR"; louels care. Strupt() - (onlest string to But emp =75 kupper cale sprint (info, " thooks StrienC) - recorse yers depthasold Luldage. Strompo - comperp toco now dept, emp); Print (6/10/0/2016); Storing Input char first_name[25]; returno: intagl; private (" Enter yours first name the storing, in Library and age: (n); Scand (10/25 0/00 / first-named Storngon 17 to any contay numerous stolling age); frunction

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Horavde sad
# include estoing. n>
                                 Array 10/ streng
                                 A tueco-amuensonal array
 Rut make ()
 char sil7="the grey box";
                                 cau be alea to othere related
Char52[7 = " gumpea";
                                 Strings
                                 evar trip [3][15]=d
 Sto (at (51,52);
 Poluty ("0/08/n", Si);
                                   1 Suptrace V,
                                    " pau port",
 Print) ("Leugth of SI Ps o/oda",
                                    " tacket"
          SH DON (EI)).
                                  y .
 Printy ("SI is now of SI n", si); & Function pointers.
                                gince prointers can promit-to
                                 ay addied in any premory
  returno;
                                 location, tuly can also
                                 posit to the start of
-> converting a 6-toping to a Warden
                                 executable coda
 Converting a stoing of number
                                soturn tyno (tefunc name)
 gaaracters to a numeric realis.
                                             (parameters)
 PS a common tank we crown
 But a tor (sto) stands for
                               # Prichage CEHOLPRO-17>
                                Voold Say-helde (Pht own-Hims)
  ASCII-to Rudeger.
Huclude Cstaire.h
                                en malucos
   Red maile()
                                 raid (+tunptr) (1m);
   ruas mout (1a);
                                 Acceptr = say_hello,
   fut num;
   Print ("Enter a number");
                                 -keuptr (3);
                                returno;
   gets (inpite);
   num atorcin but);
                                 void say hello (int numetima)?
   Staturno;
                                 quet Ki
                                 Hor (K=0; K< num-times; KH)
                                 Privity ("Helloln");
```

the leason pointer

A word primer so medito refer to any address ty ho for memory and how a Oleclaration that look like void *p+>.

Rut x=33; -floor 4=12.4", char (= 'a'; roid +ptr;

Ptr = ex;

Printy (" reoid pto points to olodlo" & (int) Aid;

privity (doorld par power to 210 flor, + (1800+4) pto));

ptr= 40; print (" roid pto points to 0/00 ", * (((hond) Ph));

function using wordpointer roid & square (coust void);

Function prointers as argument

* Structures & unans

and Stou Hure 90 user-defined dotta types that growns related regulably of different data type

- A structure declaration queludes the Reynocold stand, a structure tag tos referenching the Stoucture, & coorly breat & wise alist of reachable de clarications cooled nemerals Stone (anset put Pd; caar tito Eval; + load hours;

Declaractions curry struct the statements beloves declare a stoucherse data type and that was the Student Struct the declarge warfables · SI and Sz.

Stouet Studente. Rut age; Put grade; Char naus [40]. 4% Storect strongerts1; Struct students 2.

Stoud Student St= (19, 4, John 19. wearking welth structures Struct student 52= 222/10, "Ratmouly; -lynoal stoucto According orbitations Hombers put x; S1. age = 19; eut Y; =# Proclude Cstdio.n> y point; tyredel struct # include cotoing.h> flood sadlus. Stouct coursel pulut center; eut 9d; y its de; chartitle [40]; Al east hours, Dainters to the Stoucture y Stouct my stouct & stouct pto; Rut marie () & Struct course a = 1341229, 4ntro 12.34 Struct-pts = & stouct-var; Estance Course (85: +stores. stouct-pt; -> stouct-men; (52.id = 341281) stocky(co.title, "advanced (tru); access the realus of struct-mem. (25 . yours = 14. 52; privite ("or. 101.01+01.01+016 4.24/n", Struct student & cuar name [50]; Col.id, col. title, col. hos); int number, returno; int age; 4% reoia s how stude ut pata (struct fuctore of using typode/ Print ("In Student: In"); typede & stouct 1 private ("namo:0/08/n" st-> mand put 9d; char tite [40]; point ("neumber oboth " 8+ 2 number) flood mours; Printy ("Age: olodla", St->age); y course, course (1); ground student Stl = 2" Krishna", 5,217. Course C\$2; shace steedent porta (6871);

Unacus unlow poll Rut Pd_num, chas name [20] A union allower to other q defferent dotto types en the rooped set pd Cunsoned Scurp encurery location. premot 'Unrous Reyneard. 9 dew >90_num=42, Unpou valt Rut Rut_num; Vold show-Pd Cuntou Pd floor fl_num: char str [20]; q sevi) d prenty ("10 Ps "lod", Polities to uneous grow. Pd_num); Presider to a willow. probleds the the oneumosy Array unous leacetion laconellecented to undan vas E tue willor flut Rut num; float fi_num; union vall Rut Rest_nam; char str [20]; floor fl_num; cliar sto [20]; y; unden seas nums [10]; 4, uneon val Rujo, ant K, coulon val & ptr=NUL, tar(k=0, kc10, k+) ptr = 49010; nums[k] ant num=k; ptr > vutnum=10; Preut ("Info, novinumis 0/0d", secyo sharrow); -tor(k=0; K410, K+1){ printf ("olod" numski. unewns as function Post-rum); Parameter

Memory Hanagement

bient (40/09", 8180 (x));

Henry rearragement

the stairb. I library encloses remory hanagement functions.

=> #include < std19b.h>.

malloc (by tes) -> Retur or a painter to contiguous brackof memory

Calloc (numitem, etemsize)

Returns a pointer the a

contiguous black ap

Nourony!

revalled (pts, bytes) and zer the memory produced to by ptr to size bytes.

of mourary propheted to by Ptr.

& The Mallar function

mallaces function allocates a specified runber of mental

Ruclude < stdleb. h>

ent * ptr

ptr = macoc (10 * spzof(* ptr));

p(ptr) = 10011) &

b(ptr+2) = 50;

Malloc function can be allowed Nemory of contigues and can be to eated as an array Interted of using brackets [] to refer to elements, pointer arithmetric Pe med to travers the array

The Free function

free () function es a memory.

Acre (bfi);
beint (a) of 10, i (btots))
beint (a) of 10, i (btots))
bl (bti i-norr).

but plu = warroc (10,2,30) (b)

+ Callor function

callaces tunction allocates as pocific item, such as a stoucture.

reallao

a custout black to eached additional momery.

Allocating memory for strings.

Nehou accounting momery for a string policier you may want to use string long the rather.

The cut string long the rather.

The calculating bytes.

Chas Str 80[20];

Char *Str = NOULL;

Strcpy (Str 20, "12345");

Str = malloc (Strem (str20)+1);

Strcpy (oto, Str 20);

Printf ("0/05", 5tr);

Dynamic Assays

many algorithms surplement a dynamise array because the number of colonius to grave as needed.

FRIOS & EXXXX Handong

An external file can be conouned rocad