

+) on this pgm the momony accorded by malloc which is no longer used is not deleased

lo when all

Memory leatage problem use free (1) for Every value of i

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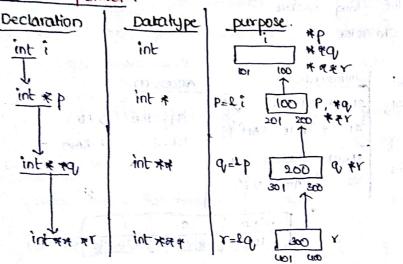
(A) & root

A HEATH BOTTOM A

finish the transmiss willist

prinist

Pointer to pointer:



Pointer to Array:

5

Array name is a Constant pointer which always contains base address of the array and we cannot change the content of the array

> *) int a[s] - flo, 20, 30, 40, 50) int *p; P 102 9 100 40 50 a=a+1 => Compile time Ermy L-value read P= Q+1

- *) pf(" / u / u , a, la[o]);
- *) subscript rule.

$$a[i] \Rightarrow *(a+i)$$

$$\Rightarrow *(a+(i*signof ar))$$

oints to remember: x[i][i] = *(x+i)[i] = *(*(x+i)+j) *) int *p : p is a point to an Int DT (1) *(*(x+1)+1) => value of ith 10, Ith order *) int (*p)[3]:- p is a pointer to the =) addien of ith 10, ith Index (11) *(x+i)+j array of 3 Elements Pointa to Amou adden of it 10, oth sacti. (m) *(x+i) of ant or #) int *p[3] :- p is a Array of =) Bare order of ith 10 (1V) X+1 3 pointer of 301 or Bare adds of Array Array of points. (v) Base addr of oth 10 / Base addr of oth 10, oth orden. Pointer to string: String Constant: Group of Chars Enclosed in double quotes is called string Constant -> Every string constant is stored in Static memory -> of always between base address of the string Constant -> ot is always terminated by Nucl Character Pointer to structures: Structure beclaration: structure variable: Initialization: Accessing Struct student Struct student ~ struct student si; int idno; Spidno => 10 SI = } P 10, RAM"; 21.5 => RAM char s[6]: struct student X 3: thysical mem is 52 - { RAM, 105; allocated, No physical mem is idno allocated 1 R' 1 A' M' 10' 10' OI Alternate way of defining stucture struct student gistos nitrios teologo D & sarro and intidate in a mine question to have been all the second to make char s[a];) si = { 10, " 20 m" 5; *) P=a+1 P = a + (1 x size of shua) Array of structure: struct student a[3] = { 10, Gudipati, 11, Sai, 12, khishra); = 100+1711 staict student ap; Stutent "Gudipati Accessing: "Icrishma" "sai" 12 -) idno a(6).idno → 10 a 100 idno s idno a[6] · S -> Gudipati P->idno -> 11 (*P)-idno ⇒ 11-011-15

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(3)
A PARRIOR EX STRUCTURE !
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      exer stell
     1 " let " , 140 , 101 , 101 , 101 f = 10 t
A Receive to remember
                 30-414-16
Pointer to furction: (To Supplement call trick value efficiently)
Definition: set type (+prints can) (tist of ange);
        ext voice (+1)(1) who is a pointer to a function where function takes
                                 no angle and letam type is wold.
               void (mp) (tot, int); - p is a pointer to a function where function takes
                                 a sotoger and and return type is void.
    Assignment !
                               Acressing ;
      Points var - dun name
                               points von ( ust of engs);
2 Poloter vax - thin name;
                              (# points was) (this of angs);
 duray of function policies !
 Decknotion : for (* PEDT) (int, Int);
 * Assignment : P(0) - 1 Rin name
                                      (01) P[0] - Rin name:
                                                               the all of
 Acreming ( P(6) ( int, int )
                                     (ou) (rp(o))(intiint);
 static scope and synamic scope;
                                                               I FIRE THE LEW !
 Static scope (local + visible Ancestor)
 Referencing Environment of a start in a statisting scaped language is the collection of
all heat var of all other accessor variables which are visible to the start.
Dynamic scope: (Local + Active sub 19m)
Deferencing Environment of a start to a Clynamically Stoped language is the authorism
For all tocal var + all other active sub-program variables which are visible in the state.
- Active sub program:
      A south pages is castled active if its execution has started but not get terminated.
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Pettes for creating access link: Every Activation record in the stack must have access link to the most breent activation record which lexically contains it. why accentink Plexically contains auris -> To Accen variables a lexically contains Y q Parameter parsing Techniques: (1) call by value: · Actual parameters carry their value and copied into formal parameters

-) later formal parameter can be modified but their modification are not reflected in calling function unables.

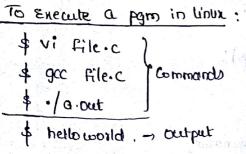
(11) call by Reference:

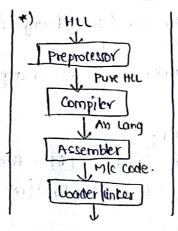
- · Actual parameters are cornying their references and formal parameters as alias to their Corresponding actual parameter.
- -> Of formal parameters are modefied then It reflects in coalling function variable

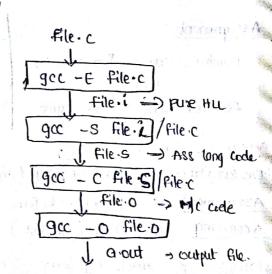
Note:

Possible Combinations: Static scope + call by value Dynamic scape + call by reference,

Points to remember:







Format specifiers :

1.6.2 f => Print as floating point, atteast 6 chars wide and 2 after decimal point

/ P => pointer address

7. x = int unsigned her value

7. u -> int unsigned decimal

7.0 - int consigned octal value.

Description for the gift known for the agreement