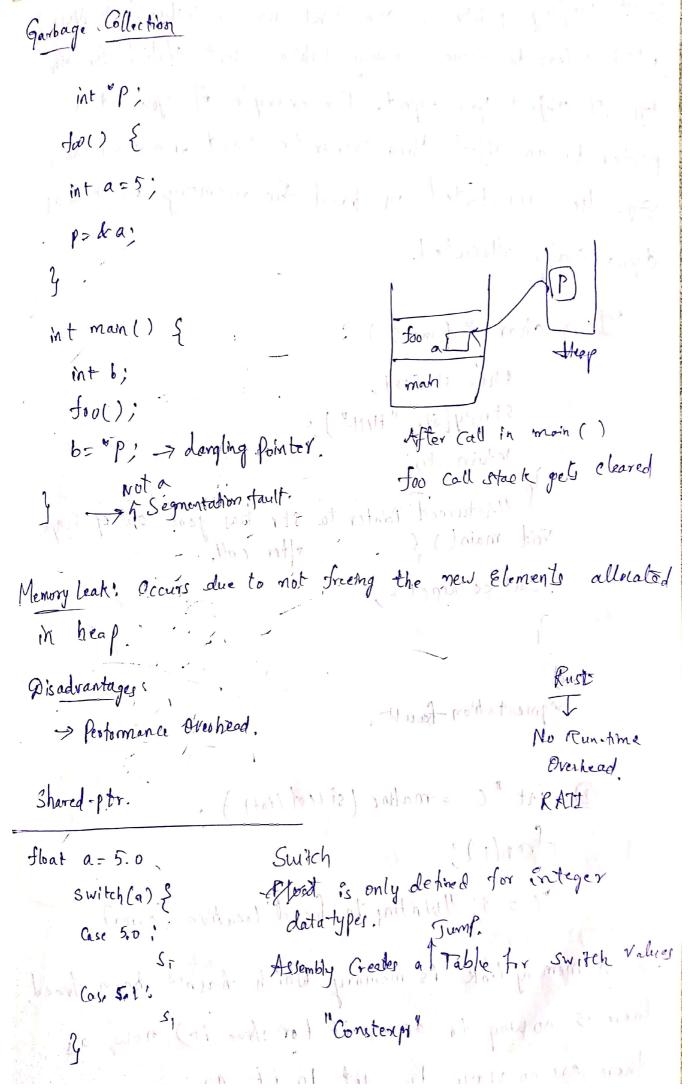
Type: Sot of values and operations. inta, $\frac{1}{1}$ intb $\frac{1}{1}$ $\frac{1$ Struct & struct { Its of they are same (wine rom & Trom) > Fight 1, 1th suffields. A dignalis typedet int feet typedef int meter feet of meter of gold to the first int a [3]; a = b < not valid
int b [3]; 'a' returns a Const. panter which can't be METER & RIVER COM & EIT A IN MIGHTED SIN MEDICAL enum Color {RED, GREEN, BLUE}; # define GREEN 1 float has less number of Values than int Floating Point Arithmetic is not Commutative and associated Due to format in which the floating point numbers are stored and refregented, it rounds off of the numbers during Caluclations.

C= a (= c+0.5 d = b d= d+0.3 C = C - 0.5 d= d-1.3 " y dat & full Hlatb==ctd) {Si} Do have & le application of the else { S2} Here Sz will get executed due to fluating point Exciption. Valid check! if ([ta+61 - 1c+d] = Esig (C) squi & (B) else { 52} x=1 - mission syst -> av. 2 = = 0 is faster in many compilers checking it with any other value. in a development class animalif class dog: Public animal char * name ; enum class breed f... } Char getname(); breed getbreed () SubtyPe animal Superty Pe dog

class CS public At Class A & Class BS int a; int bj Int x int x int Intxintx * wtx * X * A is supertype of B and O. We can talk about supertype and Subtype only in case of inhentance. > type widening - x = y type(x) > type(y). type narrowing - y=x & type(x)> type(y). type X is Supertype of y Los (const Int a) _ _ _ Substifer the of intr b= 5/2 mung ing promoter into () (b)

and the same



int abic; Underhanded Coda MISRA C'SIA. Contesto Switch (a) } Case 1: if (azo) { => zt's mit allowed) Case E: broak: doesn't allsel Ewitch is Jaster than it ... else. or almost other are stocked makes it is for (i=0;i<100;i+): aci]=a[i-1]+1. dod auto i:a) 1) int a post and entered not type their one for each ky in a? In O we can't write Sty Uki a Ci] = a(i-1) +1 as We only have acresto elements. We can't stip Elements by D-methods try, catch and rethrow. -> trocophion handling should always be used to handle the Situation that are beyond unv's Control. int x=1; > >> choice is 1. Switch (x) { at 1: Pant (Chope is 1); I transfer to matching case, the states Written before are not executed

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Which refers to some memory which is not Valid for the type of object you expect. For example if you set a Pointer to an object then overwrote that memory With Sty. else unrelated on freed he memory if it was dynamically allocated.

Char func () {

Char func () {

Char str(107);

Strepy(str, "ttell");

Veturn str);

//returned pointer to Str has gone out of scape

Void main() {

after call,

Court ec stincil)

ડે

Segmentation fourt

Dist (= malloc (si le of (in+1).

free (c);

(= 3; // Writing to freed location (error).

A memory leak is memory which hasn't been freed, there is noway to acrem it for free it) now, as there are no ways to get to it anymore.

bodard i sometime

Char "ch = malloc(10).

The is not valid outside no way to access

malloc-ed memory

-> GC works in a way such that the run time detects
unused objects and object graphs in the background.
They keep-track when objects are no Longer referenced in the Code.

All object Envariants are pre-Condition, and Post Condition to all member methods except for Constructors and destructors. For Constructor the invariant is just a Port Condition, for destructor invariant is just be Pre-Condition.

Voil Notasi E Mass P= 48

Ann L (P) hoped of a land of the state of t

Augustine for lite, , 1st

Enum male in parely ber and enum varable. enum days { sun, Mon, Tue, Wel, Thu, fri, Sat}; States states. Keyword Install tahon! enum days day; operation! day=wed Printf ["1.1", day) >> 3 Inti; for (i=Sun; i == Sat; i++) Printf ("4.d" i) 27 01 2 3 4 5 6 -> Default assignment of enum starts from 'O' > We can assign values to some name in any order All unassigned names get Value of Previous name plus ane paralle la la constante -> Value assigned to enum name must be some integral Constant -> All enum Constants must be unique in their scope enum state, & working, failed }; remin result failed, payed). >> Compilatorion evor. -> Integral expressions used in Switch labels must be Const. expressions Int x=2) int an [7={1,2,3}; Switch (a) { => Compilation Error! Code arrig: S, Care label doem't reduce to Case arr[1] 1 Sz integer contant.

Cose arr[2]: 57

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2+3th 4 is not allowed in fortron. -> Precedence and associations Conly for Infor Expressions provide Value to Surrounding text.

Temperative languages Compute by means of Side-Effects - Afriture Compidation is influenced in a way other the Veturning a Value to Surrounding Context.

=> functional languages have no Side-Effects. The Value of a Expression is independent of time It is evaluated.

-> Callows expressions to appear where statements are expected

-> Some languages orequire definite assignment. they Complain if they See no initialization at Swall dung of Duloh Wisse us. Compile traz. a signification of the Asimo of Maplie

-> Using Commutativity in add n of - Sloating Point Values Can be dangerous mont muns of benefits and

-> Short circuit evaluation.

-> List p and Ruby provide throw ... Catch mechanism

: plates of months of stated); - Sequencing posted topical filleson ware - Side Effect may be desired for Submutines -rand() returns a different number each time called

7 Jump tables make sense When the range of options are donse since they can be efficiently packed into an array Whose index is the Selector's Value and Whose Contents are the addresses of branch options.

tartand darrota

- -> Enumeration-Controlled loop: Values over a finite Set
- -> Legically- controlled loop; based on monitoring boolean condition,
- > Operation | function | expression is said to have a side effect if it modifies some state Variable/s) outside its local environment, that is to say has an observable effect besides returining a value to the involver the
- simulate enumeration Controlled.
- -> Machine and Assembly languages have no types.
- -> Structural equivalence specifics depend on language.
- expanding their definitions recursively until all is left is a String of type Constructors, field names and built-in type
- -> Coercion is using Some type Where Something class is expected.
 - It is a form of implicit Conversion
 - It often requires elynamie run-time checks.

(1+11-1) political

Albeh of