APCSA



APSSA **SUBJECT**

WIDE RULED

Spiral NOTEBOOK

ACCO Brands ACCO Brands
P.O. Box 290001
Dayton, Ohio 45429
www.mead.com
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101/2 IN x 71/2 IN 26.6 cm x 19.0 cm

Assembled in U.S.A. with U.S. and foreign parts

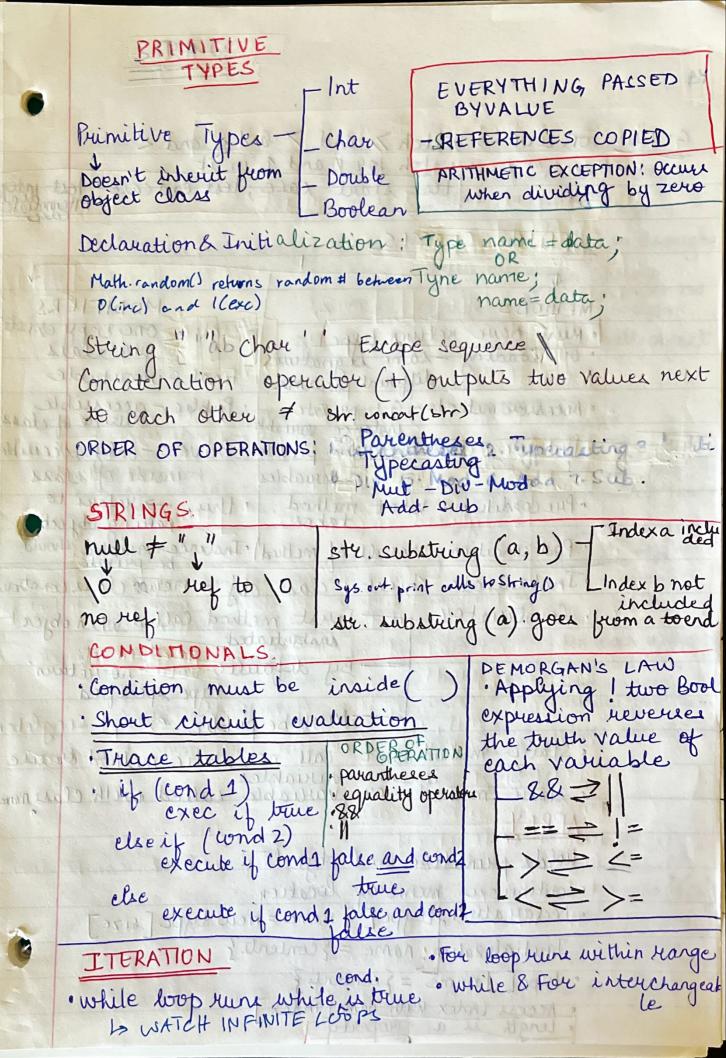




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SHEETS

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STRINGS --EVERNIHING PASSED BY BYVALUE GOTCHA FOR LOOP > Watch > and > and < and < watch for p and 1 in it

test start case; test end case; test intermediate WRITING ACLASSES TO DO SIL OTHER SHOULD AND HOLDER Thether continued resigns MODIFIERS METHODS · Static - one copy exists · must have return type · overloading - same lignature, different params per class · final - immutable · Accessor methods - Get private instance voriable · Public - accessible of class · Mutator methods - change private instance variables · Private - only accessible inside of class · this. -> refers to calling object · Precondition - what method · Post condition - result of method Instance variable should Instantiate object: class obj = new class construction · Constructor - First method called when object By default poid-no veturn type apecified - CONJ DEMORISHIN two koo Must be public except singleton MARILLE · Static method can't call non static method or use · static method or variables called with class none ARRAY. · Holds primitive and objects · Declaration: taype [] name = new type [size] Initialization: name = { contents } · type[] name = { contentif · Access index with name [index] · Length is a property

· Index starts at Ø · Array Index Out of Bounds exception - trying to de ref under that doesn't exist in array · Enhanced for loop - used to automatically go through Lan't change value Exception Null Pointer Exception - Trying to derefence null object SEARCHES BINARY SEQUENTIAL starts at center; moves · Go through each element · Array doesn't need to be left or eight depending it Value at center < or > target Value · Array needs to be sould · Worst case takes log IN HI n = num elements SORTS SELECTION MERGE LINSERTION · Search & Swap compares first two · Auroy is split · starti at first index, elements of always and and each subarray sorte them, then finde smallest value in as sorted then terraining array and swaps checks third index merged together and inserts in the two then moves to right place relative second index and repeate to first & second Mes recurrsion irdex, continues proces with nest of array ARRAY LIST · Avor.get(i) carnot hold primitives - use wrapper · Au . Lize[) · Au add (i,x) · Typed can only hold one type of object · untyped can hold any type of object · Aux . Kemove (i · Enhanced for loop carnot remove or change elemente · Declaration; Arraylist < type > ove; Initialization; new Array List < type

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I lishon yempring alemente that I wan hack	
· When removing clements start from back	
· Must import Java util Arraylist	
Must import Java. util. Arraylist 2D ARRAYS	1
· Accese with an 2 [#] [#]	
· Declaration: Type [][] avr2; now column	(
Initialization: aux 2 = new type [ivow] [column]	(
INHERITANCE	1
Child (subclass) inherite non private methode and data TS-A relationship from parent (superclass). HAS-X relation keyword extends	
IS-A relationship from parent (expercent) HAS-X relation	lip.
3 2 3. No multiple inheritance 1 keyword extends	
Template / Critcuia for class] INTERFACE > Keyword implemente] Tonly static	-
Abstract class only static and final and final abstract methods	-
S & S Neither Interface non Abstract class can be instantiated	
_ 27 remas we inherited unless overwhitten	
FOLY MORPHISM or data with keyword Super.	1
2 Runtime determination of north 1	
Runtime determination of method to use Fruit, apple, orange compiler may give evior but will work at nuntime RECURSTON Must have a base case overflow Method calls itself Anuthing that can be done with users	(
RECURSTON	
Must have a base care - Stack overflow	(
Method ralls itself. Anything that can be done with recursion can be done	
by iteration	(
(Houman John PILLARS Stay to party pero boat no Logolius	1
Inheritance Abstraction	- 1
Polymorphism Encapsulation (info. hiding)	
A STATE OF THE STA	

ERRORS

compile-time - syntax, misspelling, prevent code from mining runttime er - prevent code from complete execution, to dividing by 0, J- etc.

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