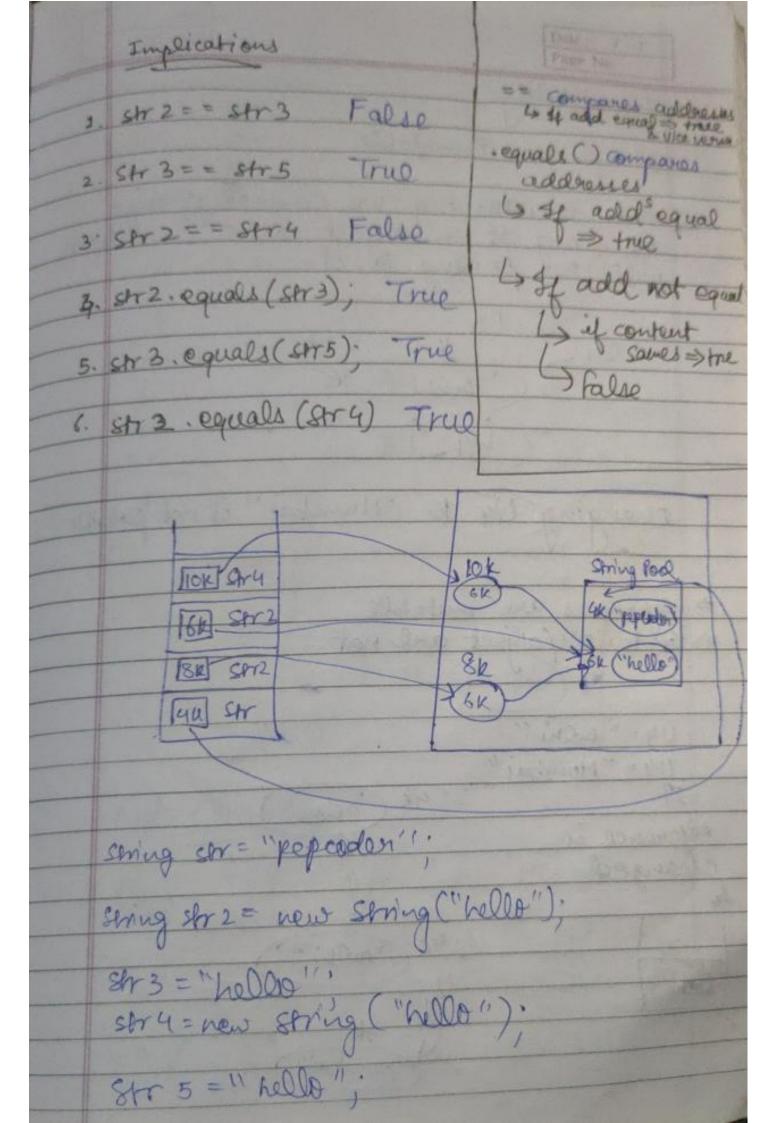


Implications and equals(6 diff b/w == > Immedability string str2 = new string ("hello"); sering pool TION SPY-4 Stack WSW3 "hello" EK 842 Heap > shell object is make at 8 k. string str3="hollo" * String Stry= new String ("helle");



Immutabelity the string pointing to it. "Delhi changing U4 to "Mumbal" is not possible >> sustances (object and not. U4=" Delhi" 14= "Mumbai" 'selni" référence is changed "Dolli " Car Uy 64

Concatenation string s="0"; for (int i=1; i = 1000; i+) { S# = S+i; 1000 K 3R ("012" 1000k ("0...loso mstant $= n \times (n+1) = n^2 + n$

Page No. String Compression wwww aaa de xxxxxxx wadex w4 a3 de x6 aaa bbb aaaa aba 936394 if (joint clowent 11 str. charAt (i) != str. charAt. Append at in Resultant String SAM group starting I append last group's foreg. after loop end

HW String with Difference of Every Two Consecutive Characters pep coding ASCII DIFF P-11e p-e=11 p-11e11p-45 C 12 0. char ch (= str. ch (idx); 905 + -ch2 -ch1 10) to servere

String Builder String s No Luterer pool conce Syntax String Builder Strb = new StringBuildon ("hello" System out printler (ctrb); 11 prients hello Arb. length (); 11 gives length of String for (inti=0; is stry. length (); it+) { System. out prient (strb. charAt(i)+""). // Expedite => Constant set strb. SetEharAt (3, "d'); 11 Changes Strb. delete CharAt (1); 11 Deletes Char at i= strb. insert (2, 'e'); 11 Ament at Strb. appeared ('s'); 1 appeareds at last (Constant time

Concatenation win SB is O(u) & in String WO(42) String Builder strb = new String Builder ("helle"); Styles 16K SPrb Heap Stack Strb & Strb2 are separate & changes doesn't affect other.

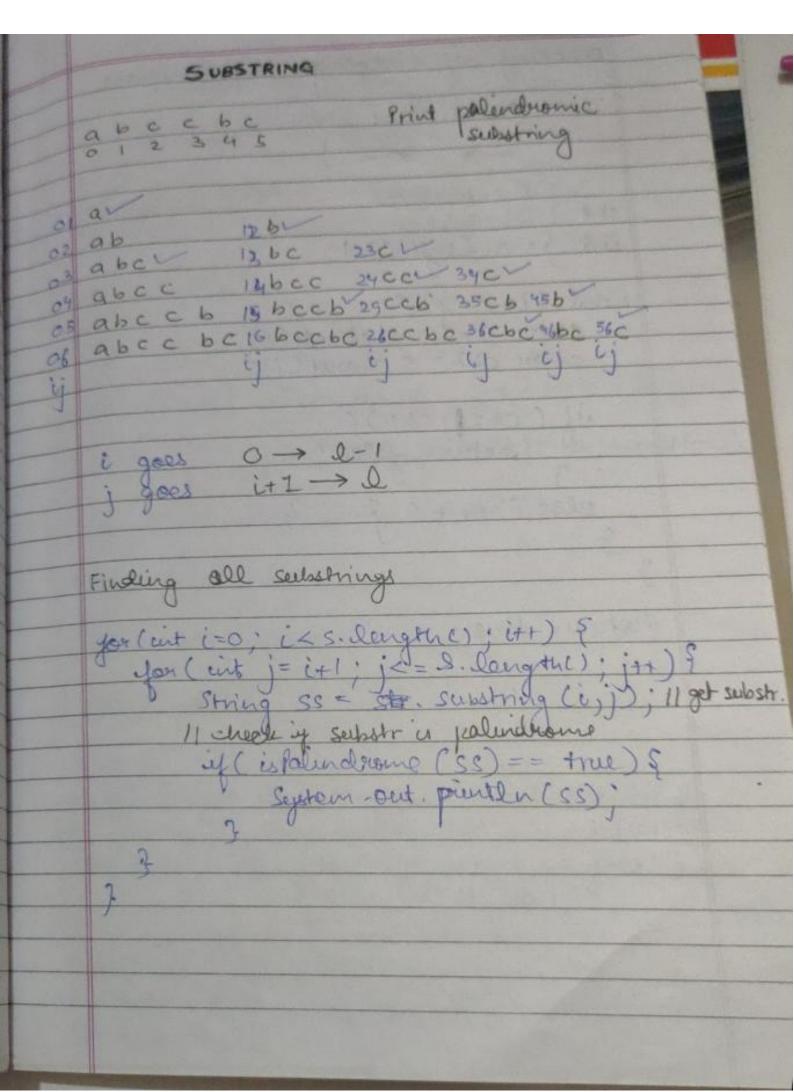
Vector in Cor Ayramic Array int [] ara = new lut fixed size Array Static TELESTO cantgripes can't atrounk 9120 Senomony made Machage not prevented Syntax and = new Arraylis Wrapper Class ve claratypes heap char > Character yloat -> Float Dirinulable Loughl > Double Boolean short Stack Loyfe >> Byte

11 guput Array 1st < Integer > and = new Array (124 150) -jor (inti=0; den; it+) 5 and add (n); 11 Traversal (Get / Output # system. out . print (over, get (i) +" "); 11 update our set (3, 100)! 11 personal / seletion ary, remove (2) 11 Fraversal / Get/ Output jointait (-0, ix and size (); in) ? System out prient (are 11 size / Cought ason. Size () 11 tosting() in our System out prientler (over); 11 to 1, 12, 5, 3 Il Equivalent to 11 String str = our to string (); It system out print (Str

Memory Mapping ArrayList < Integer > and = new Array List < 30 Stack any add (I); aver.add(2); 40 FIK OUR * For Each Loop for (int val: avr) of System, out, prient (val + " "); APPAYLIST for (Integer val: aver) & System . Dert . prient (val + val + 1 a)

Remove Primes 1-0; (2004, 8/20(); Ott) } istrime (averget (i)) = = true go hack-ward & i shouldn't inerease or i- ensures that

20 Arrays wave Traversal odd col - columns always 1 se -> column loop is for (int j=0 ; jc over EOJ. length ; j++) { (int i=0; i (avor. length; int) s Septem. Out. printly (avor [i]): 3 plso. Bottom to Top for (int i = over length-1: i>=0 i
System-out: println (are [i][]



enecking if a string is palendrome int j= s. length()-1; chan chi = s. chanAt(i); chan chi = s. chanAt(i); if (ch1 = ch2) {
retern jalse; 3 else 8 d++; j--; 3 dieturn true; a proper of the state of the state of

String Compression wwwwaaade xxxxxx Compression 2 Compression I W4a3dex6 wadex Compression I > output = " ". 2 loop though entire string from 0-> 3, length () > check if (i==0 11 sts.charat(i) != st.charat(ir)) > 4 true => output += s. charAt(i); - Else do nothing -> person she output; Compression 2 > Traverse string. tring from i=0 -> s. longth ()-1 > check if (i=0; s. than At(i) 1= s. char At(i-1) 4 true => if (freq > 1) & output += freq; output += s. charat (ist) freg = 0 - autside if - freq ++; - outside loop - if (freg>1) & output += freg} > Rehum olp

String With Different of Every Two Conscienting characters ilp: abe ad a163e-2c1d 1b'-'q'=1 Explanation: 'e'-'b'= 3 e'-'e'=-+2 'd'-'c'=1 > cutjust = " ", Jon (i=1; i < str. length (); i++) \$ output += Str. charat(i-1); int diff = str. charAt(i) - str. charAt(i) output += diff; - output = str. charat (str. length ()-1); > section output;

Togge Case up: ab Cd E olp: ABCDe In ASCII, p'-'a' = 'P'-'A' 'p' = 'a' + 'P' - 'A' P'= 'A' + 'p'- 'a' we can derive this formula le = 'a' + uc - 'A'

uc = 'A' + lc - 'a' - sningBuilder sb = new StringBuilder (str); - for (2-0; ix & length (); it) 5 char ch = sb. charAt(i); if (ch)='a' & & ch <= 'z') { Chan uch = (char) ('A' + & - 'a'); Sb-setCharAt(i, cch); Jelse if (oh>='A'&& oh (= 'Z') \$ char Joh = (char) ('a' + websch - 'A'); Sb. setcharAt(i, Ich); -> return sh. tostring ();

Remove Princes ILP 4 12, 13, 14, 15 olp [[12, 14] use Arraylist > Solution public static word colution (Array List (Integer) for (ait i=0; ix aver. size(); i++) { if (isfrime (avoi get (i)) = = true) 3 are remove (1); Prime & return true or false Remove 1 Arraylist Go back : i shouldn't I se when element is oremound > Main > Input Arraylist cut n = scen next Int () Arraylist (Integer > al = new Arraylist > (); for lint i=0; ixn; itt) { al:add(sen next Int()); solution (al); System out printler (al).

Permutation of string abc Olp: abc bac permutations cab acb bca cha observation abc as bi Co 0 of fem = 0 ⇒ remove oth char & Print it New string bo C1 90 bx C2 Up bac

