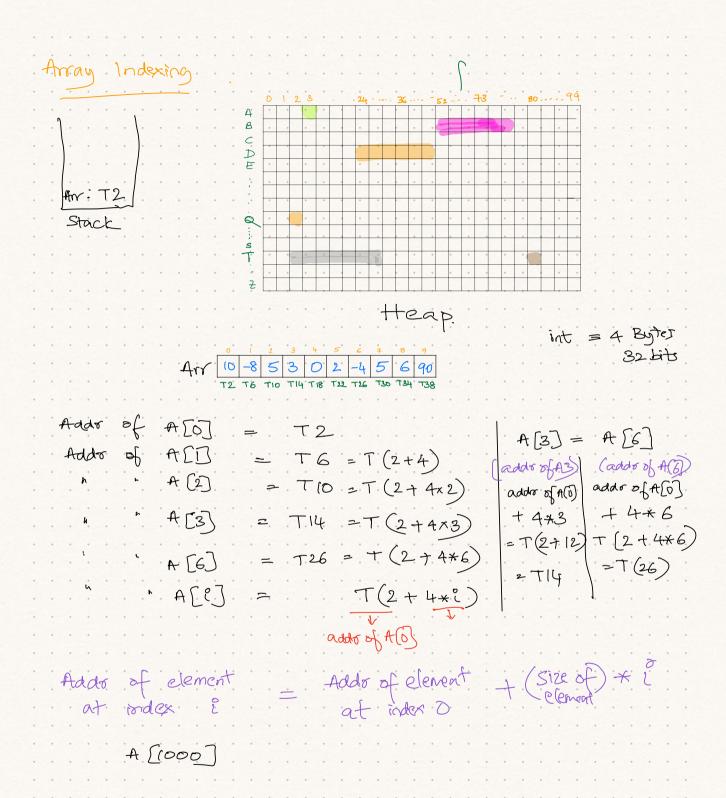
## Arrays & Strings

. Bits, Bytes, Excoding Men organisation for Arrays (Array indexing) SubArrays Substrings Pl = new Point (2,3) P2: Q2 P1: A3 Point [] pars = 5 p1, p2, p3. Stack 11 Assignment of Reference type B · C DE



Stripps

String s1 = "Hello"; String s2 = "Hello"; s.o.p (s1 == s2).

1. true (Do. SI. & SZ refer to same ship?)

String 63 = new String ("Hello");

S.o.p (S) == S8)

1) false (Do s1 & 53 reforts same obj)

5.0.p(st.equals(s3)) s2 s1

String

53 Hello

Heap

Substrings

S = "abcdefghi

substring of S = any continuous sequence of characters of S

Find all substrings of "abcd"

Start with a a, ab, abc, abcd

Start with b. b., bc, bcd

Start with c ... c .; cd

Start. with .d. . . . d

10 substra

abcd.

resulting sequence obtained by deleting zero or more elements of a given sequence. hic 10 8

SI a Sobsequence of S substring of S a program 0 a given string S. 0 1 2 3 4 n abcde S. Substring (1,4) S. Substring (2,5)

S = "abcd" O = L O = ab O = ab O = ab O = abcd O = abcdd O

for (int i = 0; i < s. length(); i+t) } for (int j = i+1; j < s. length(); j+t) s. o. P(s substring (i, j);

.5

Write Programs

S= "abcd"

1. Count the number of sobstrings of S. 11 Dutput: 10

2. Count the number of substrings
that start & end with same char  $S = r a b a e b a^n$ 

3. Count the number of substrings which are palindromes.

S = abadab

for (int  $\ell = 0$ ;  $\ell < s$ . length();  $\ell + t$ ) {

for (int  $j = \ell + 1$ ; j < s. length(); j + t)

s.o.p (s substring  $(\ell, j)$ );

 $S = {}^{11}abcd^{11}$ 

Body is sitenathe 0 ab 154 1 2 254V 3 < 4 \ 4541 Substr (0,4 5 5 3+1 3 substr (1,2) 2 2541 subst (1,3) 3541 3 SUBSTO (1,4