

day-6

char[] = ['a', 'p', 'p', 'l', 'e']

way 1

String str1 = "apple";

way 2

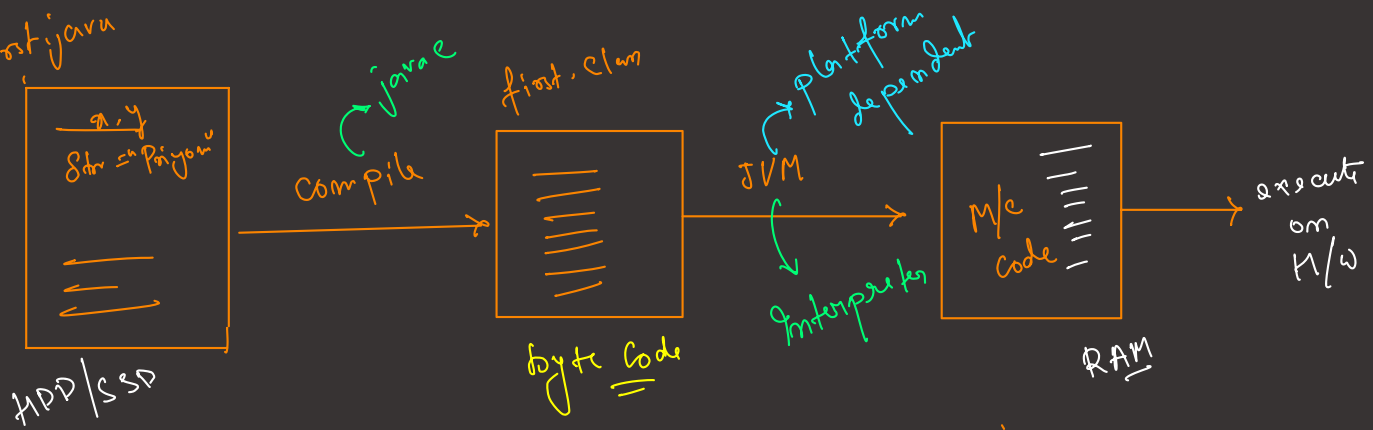
String str2 = new String("apple");

way 3

Scanner sc = new Scanner(System.in);
String str3 = sc.nextLine();

Integer n = 5
class
int n = 5

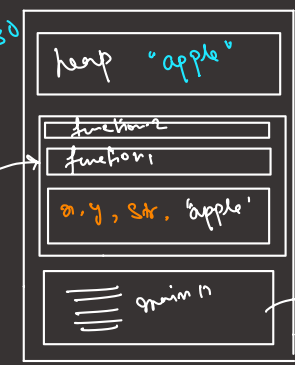
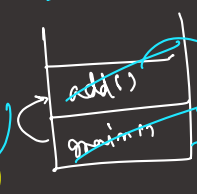
first.java



String str1 = "apple"
String str2 = "apple"

String str3 = new String("apple")
String str4 = new String("apple")

ALU
Register A - 10
B - 20
R1 - 30
R2

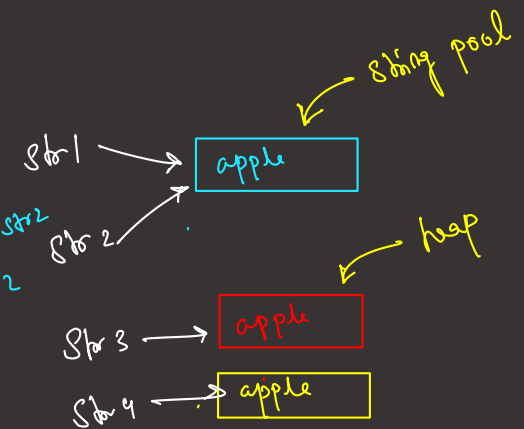


RAM (Memory)

address checking
str1 == str2 → True
str1 == str3
str2 == str3 } False
we have to compare { str1, str2 }
• Compare to ignore case()

abc < abc
abc < abd

str1.compareTo(str2)
-ve str1 < str2
0 str1 and str2 same
+ve str1 > str2



A diagram of a 1D lattice with 5 sites. The sites are labeled 0, 1, 2, $n-2$, and $n-1$ from left to right. A vertical green line is drawn between site 2 and site $n-2$. Site $n-2$ is circled in yellow.

$$\text{for } i=0 \text{ to } n/2 \quad n/2$$
$$\overline{AB} = ?$$

Q2

given string a combination of (E,W,N,S)
"NWEEWSENNN"
find shortest distance from (0,0) src to
destination ?

8. Hyp 2 $\text{dist} = \sqrt{x^2 + y^2} = \text{Math.sqrt}(x^2 + y^2)$

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step 1
for (int i = 0 to n) {
    if (charAt(i) == W)
        n = n + 1
    else if (charAt(i) == E)
        n = n + 1
    else if (charAt(i) == N)
        y++;
    else if (charAt(i) == S)
        y--;
}

```

H.W

Spring Compression

eg 1
str = a a b b a a a c c c d d
compressed string: a3 b2 a4 c3 d2

eg) $ab = abc$
 compressed string = $a|b|c|X$
 $= abc$

Q for given set of strings, print the largest string [in Lexicographic order]

garbage collection

