

Strings

String is an object that represents a sequence of characters.

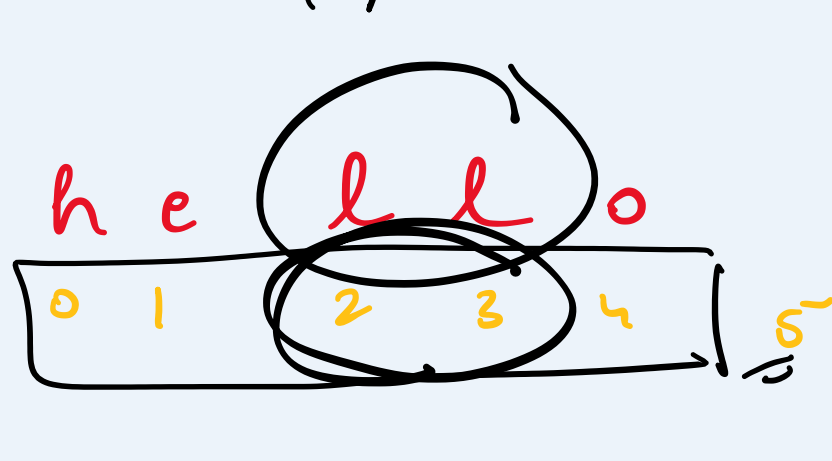
Unicode system \rightarrow 65536 char in java

"hello" \rightarrow 'h', 'e', 'l', 'l', 'o'

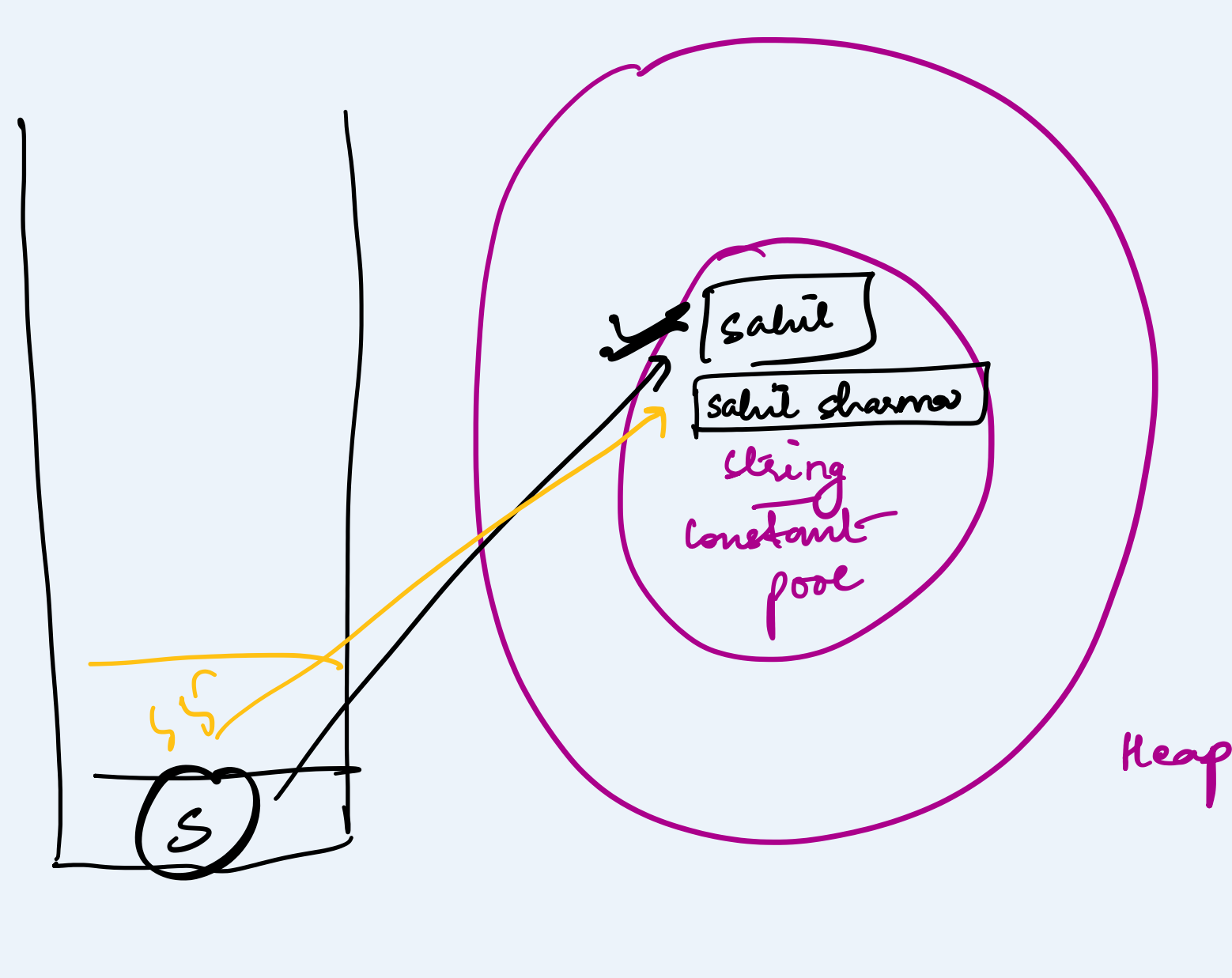
string type = "hello"

strings are immutable in java.
 \downarrow
 unmodifiable / unchangeable.

substring (x, y) \rightarrow [x, y-1]

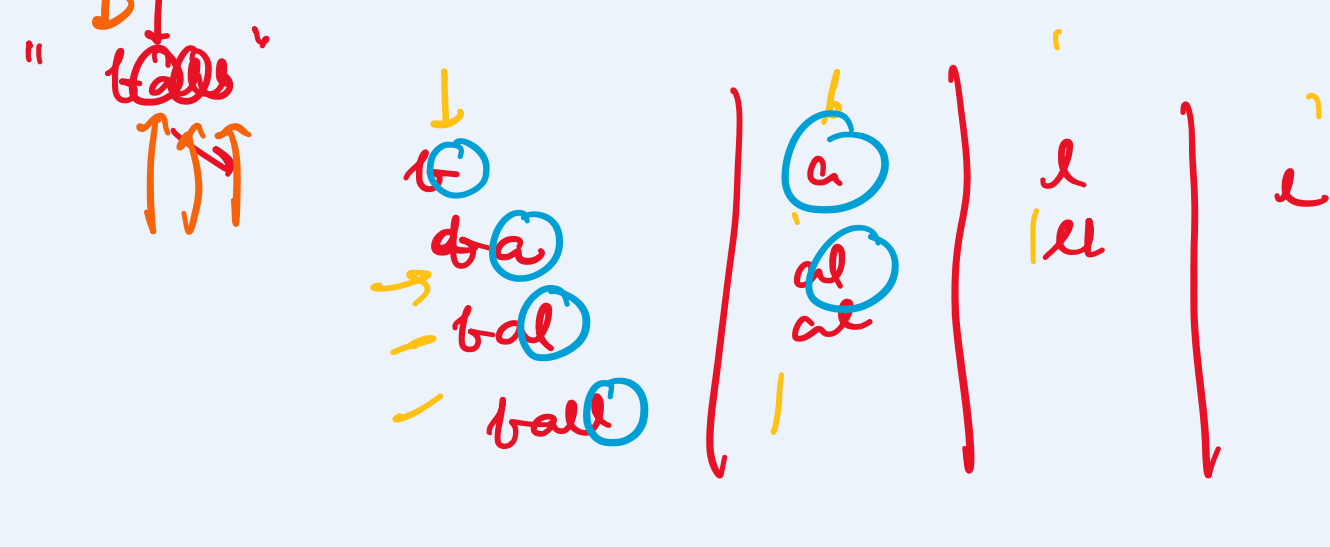


(2, 4)



stack

Q given a string, print all its substrings.

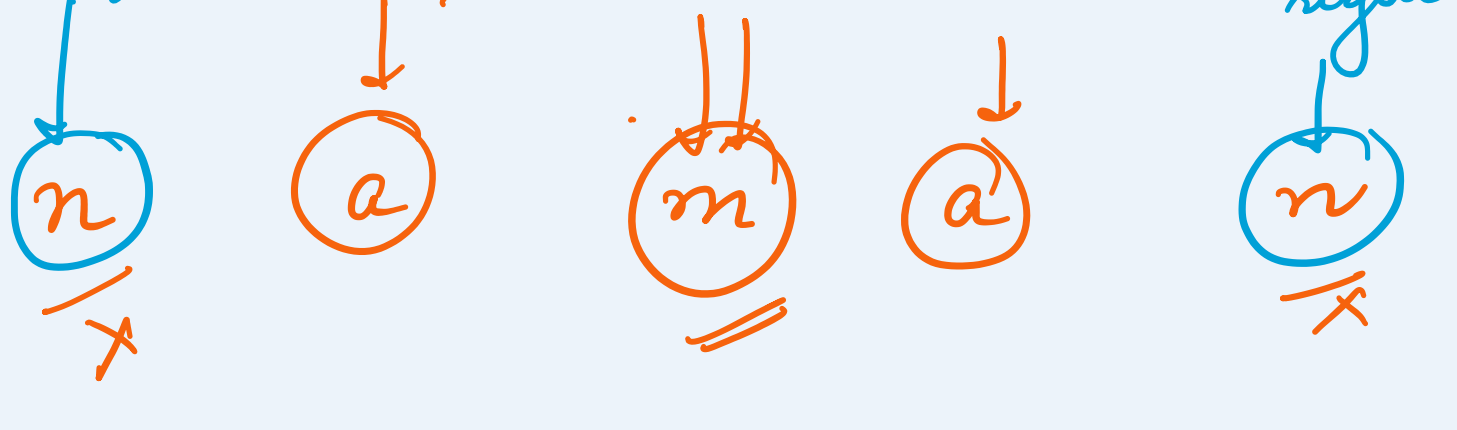


substring (x, y)
 \downarrow start \downarrow end

Q given a string, check if it is a palindrome or not.

Eg: naman \rightarrow true

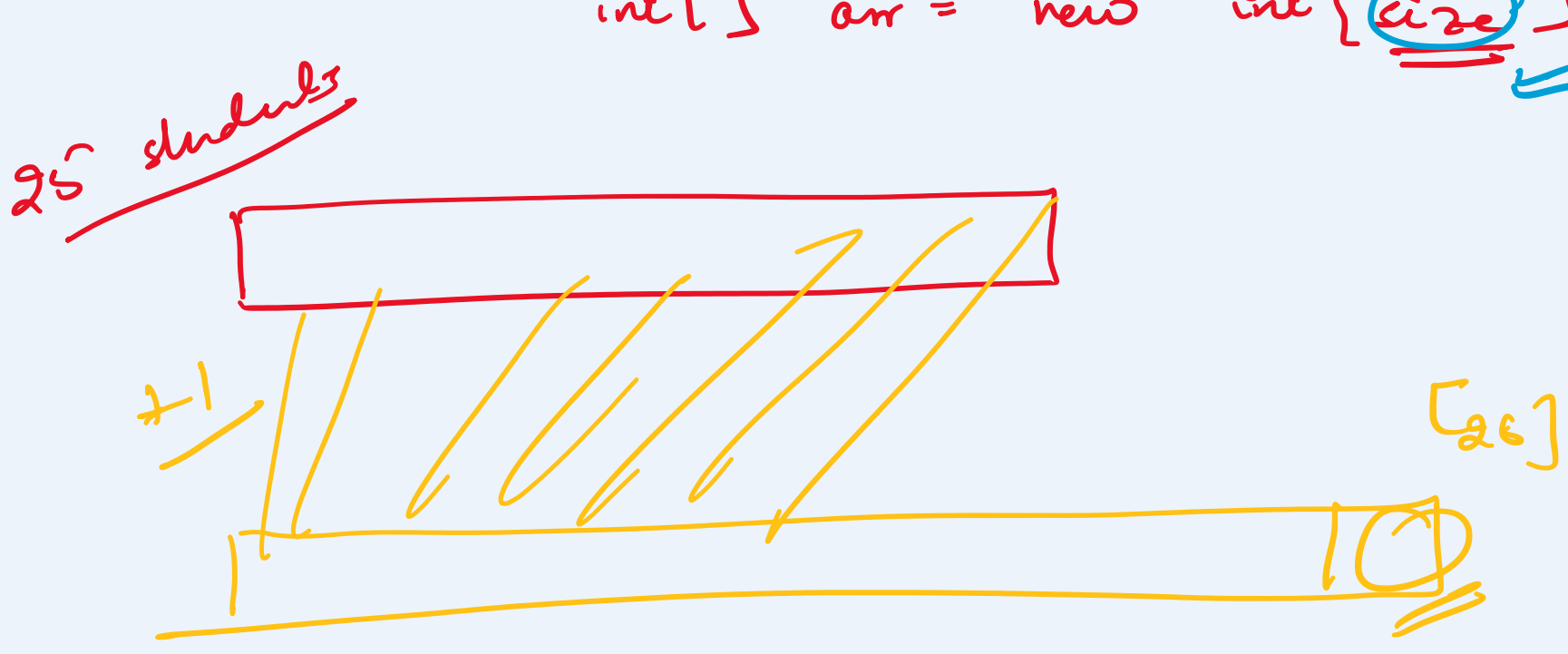
Eg: suga \rightarrow false



ArrayList

Arrays \rightarrow fixed size

int[] arr = new int[size]



ArrayList

\rightarrow dynamic in nature

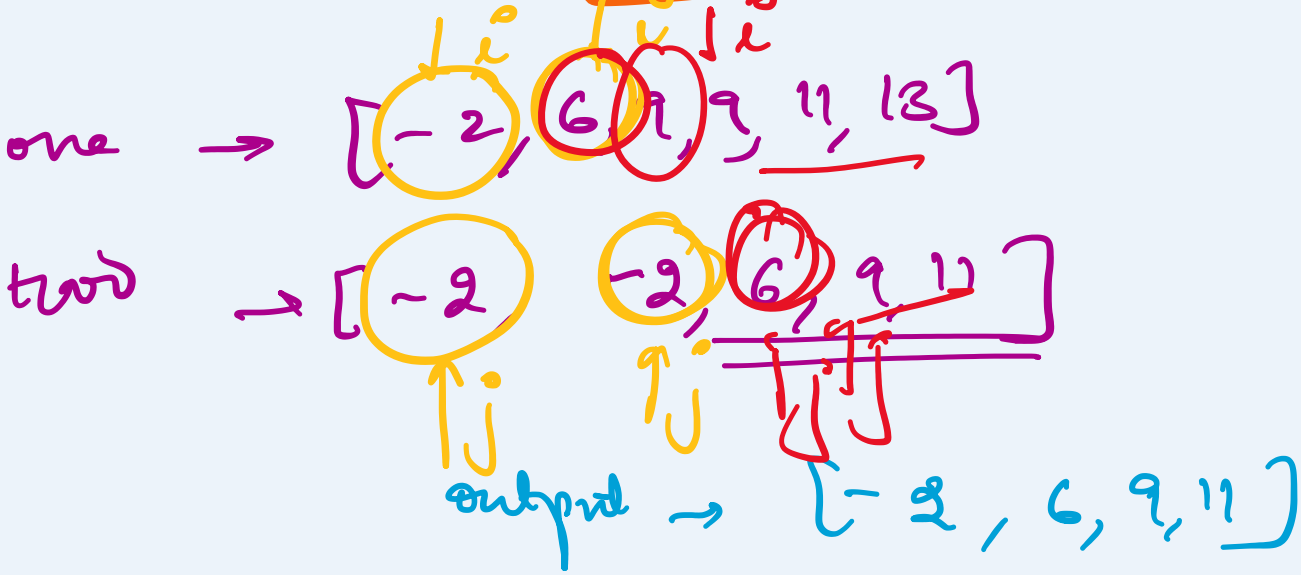
Syntax :

ArrayList <String> cars = new ArrayList<>();

Intersection of Array

one \rightarrow [1, 2, 3, 4, 7, 8]
 two \rightarrow [0, 1, 3, 3, 4, 5]

output \rightarrow [1, 3, 4]



if (one[i] == two[j])
 ans. add (one[i]);
 j++;
 i++;
 else if (one[i] > two[j])
 j++;
 else
 i++;

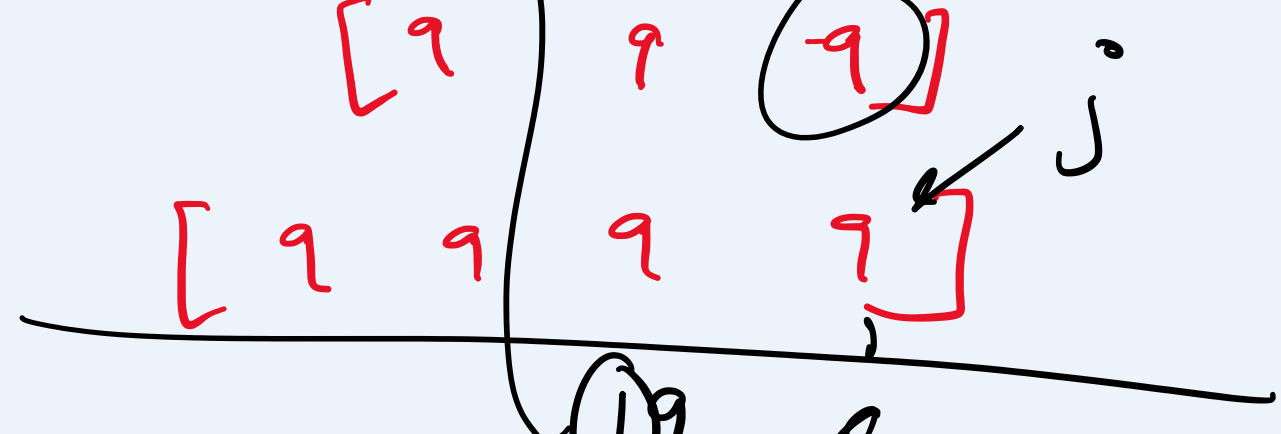
Sum of two arrays

one \rightarrow [2, 3, 6]
 two \rightarrow [9, 3, 2, 1]

output [9, 5, 3, 7]

one \rightarrow [9, 9, 9]
 two \rightarrow [9, 9, 9, 9]

output \rightarrow [10, 9, 9, 8]



sum += one[i] + two[j] + carry