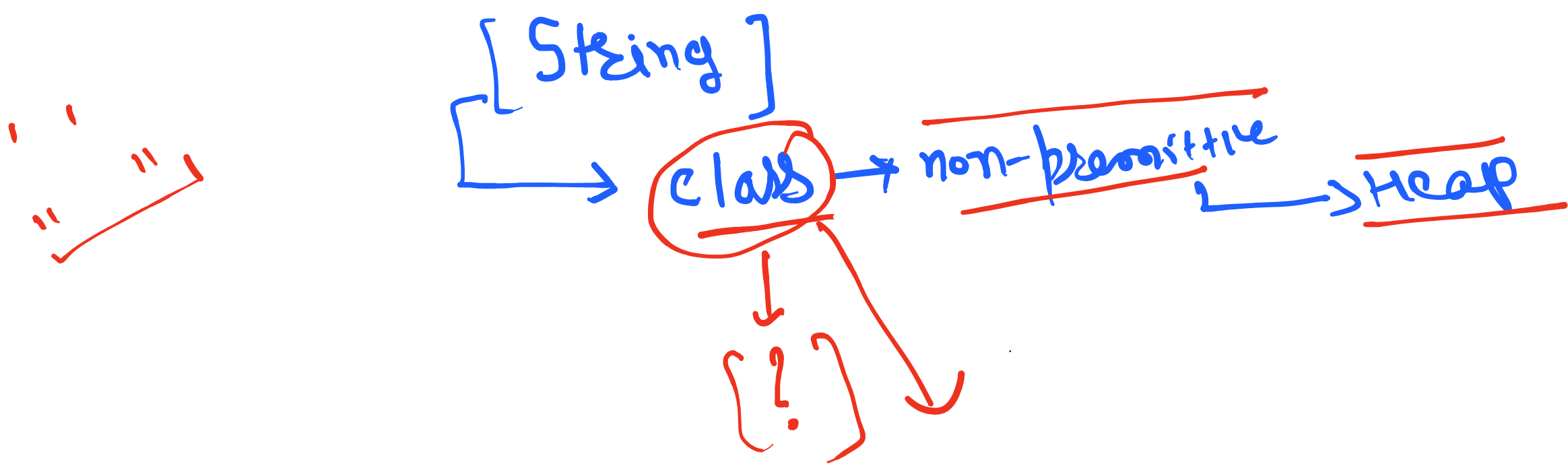


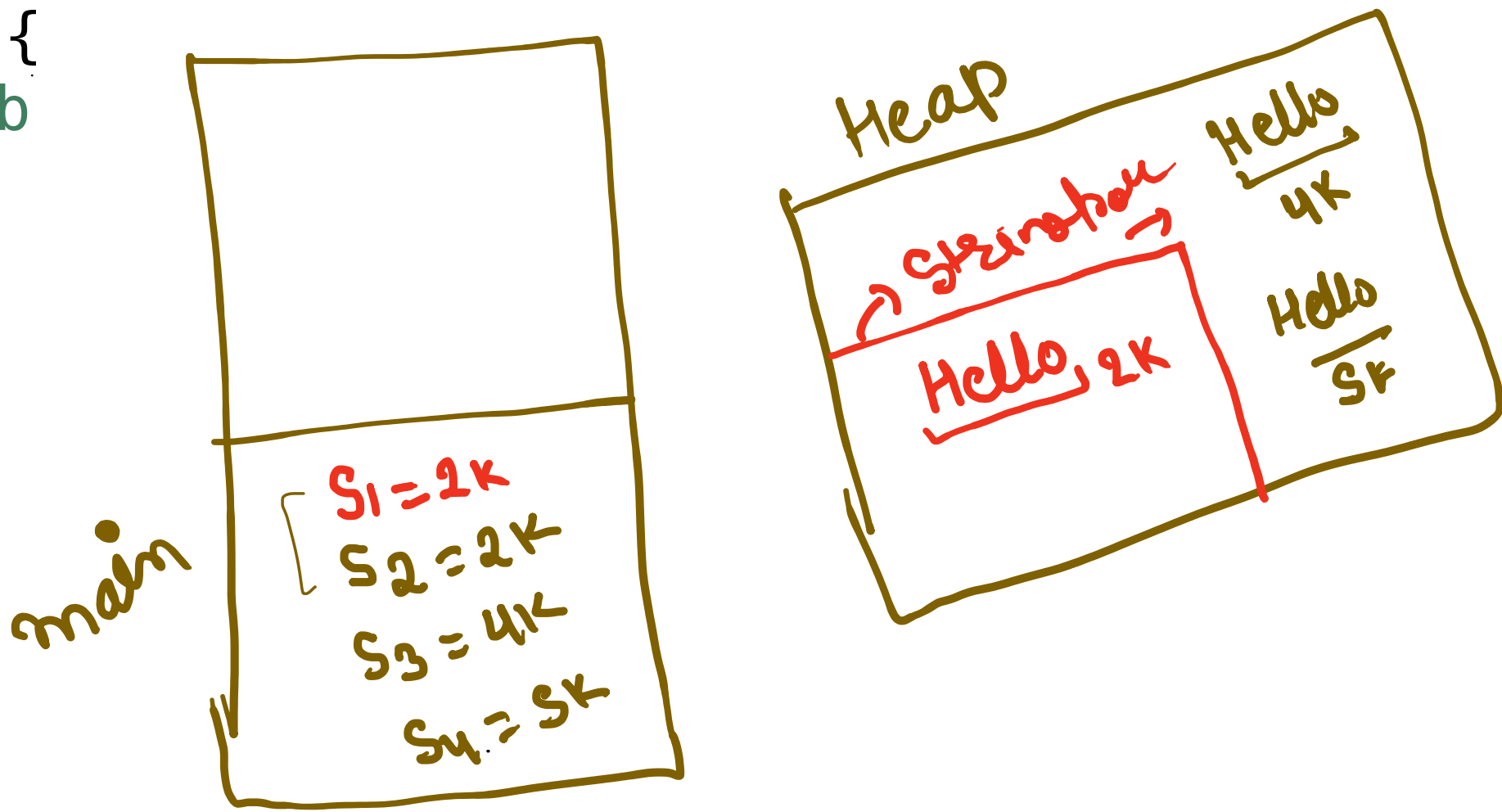
• Input: nums = [4,5,6,7,0,1,2], target = 0

[8,9,0,1,2,3] [0,1,2, 4,5,6,7] [4,5,6,7,0,1,2,3]

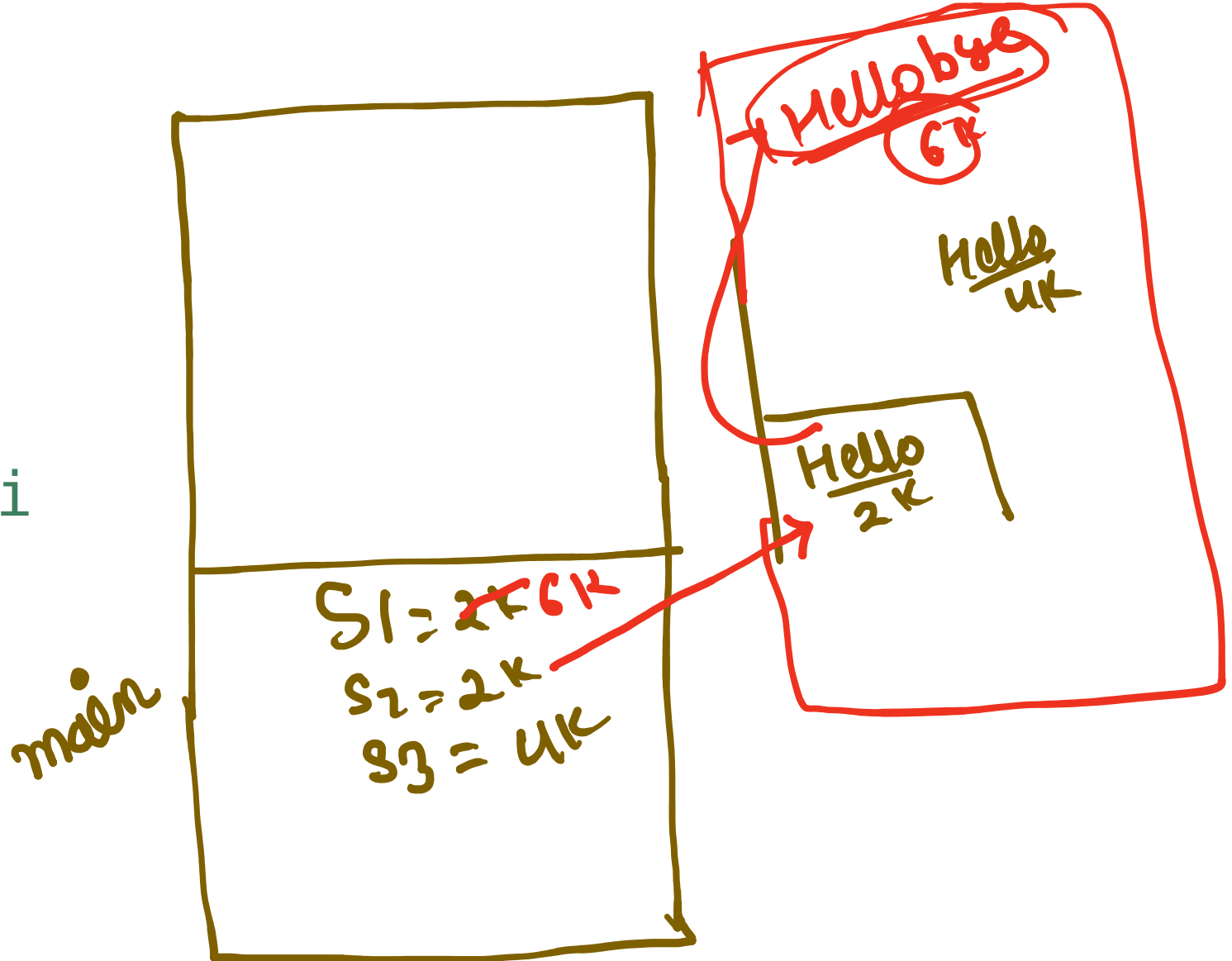
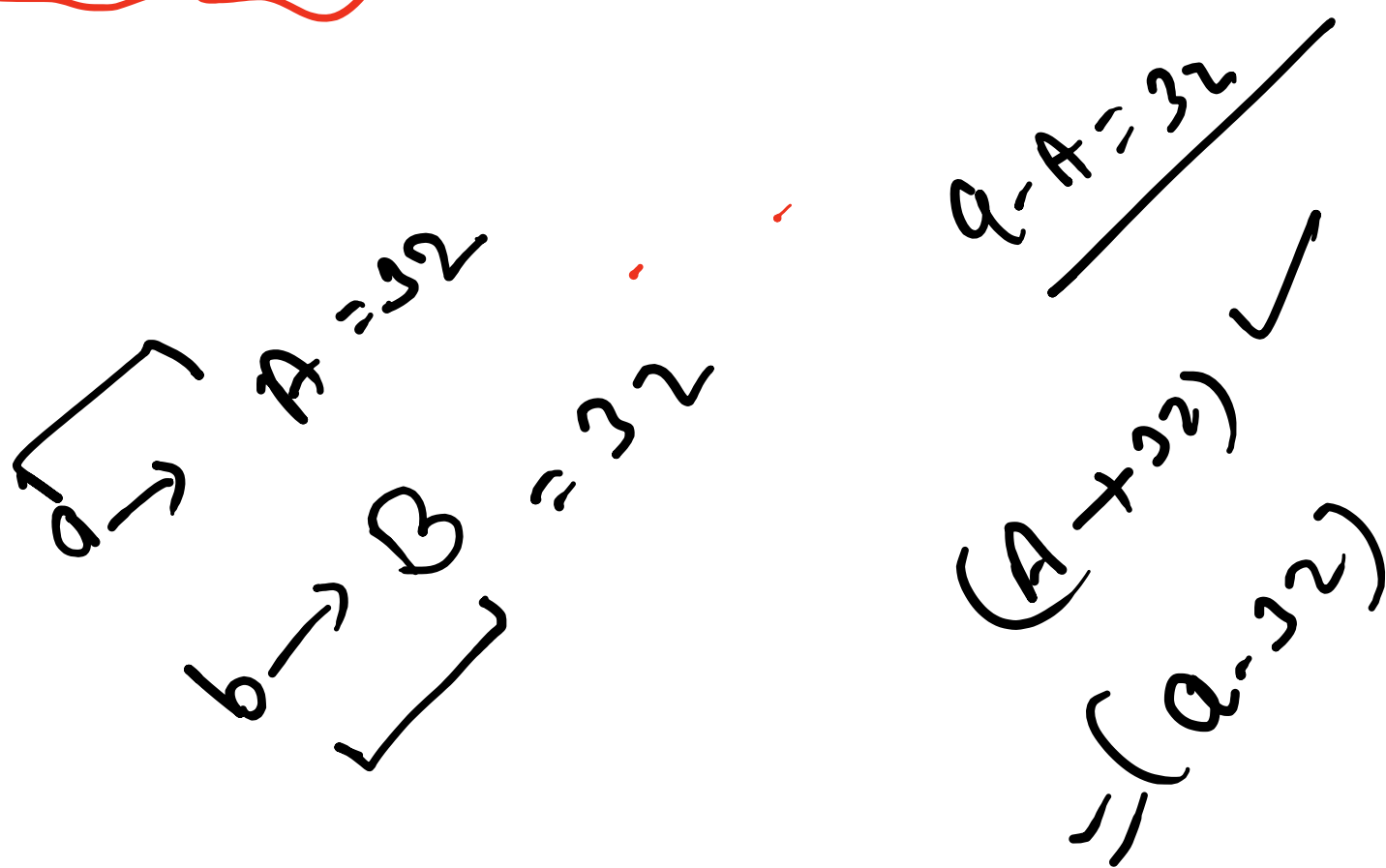
while (lo <= hi) {
 mid = (lo + hi) / 2;
 if (arr[mid] == item) {
 return mid;
 }
 else if (arr[lo] < arr[mid]) {
 if (arr[lo] <= item && arr[mid] > item) {
 hi = mid - 1;
 } else {
 lo = mid + 1;
 }
 } else {
 if (arr[mid] < item && arr[hi] >= item) {
 hi = mid;
 } else {
 lo = mid + 1;
 }
 }
}



```
public static void main(String[] args) {  
    // TODO Auto-generated method stub  
    String s1="Hello";  
    String s2="Hello";  
    String s3=new String("Hello");  
    String s4=new String("Hello");  
}
```



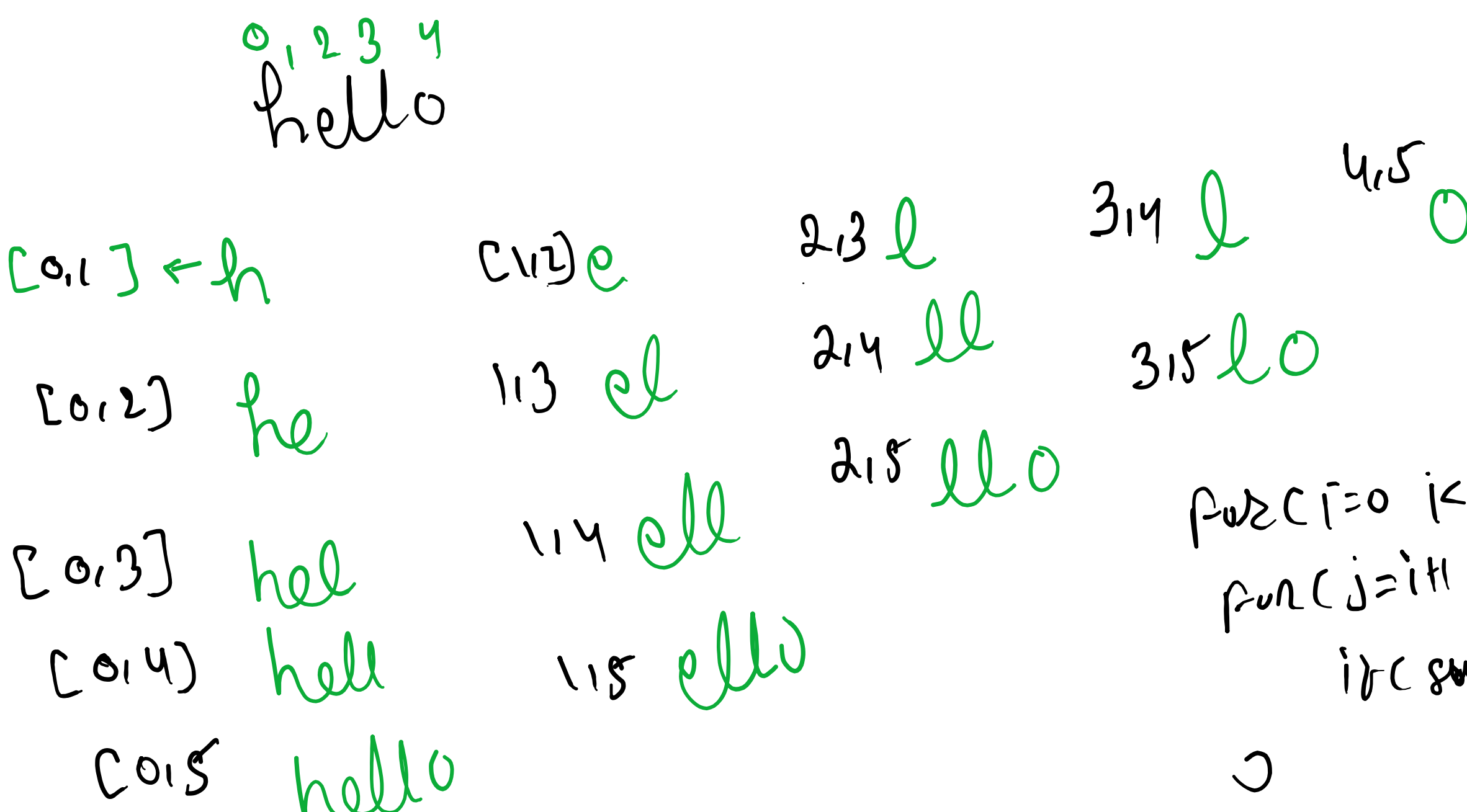
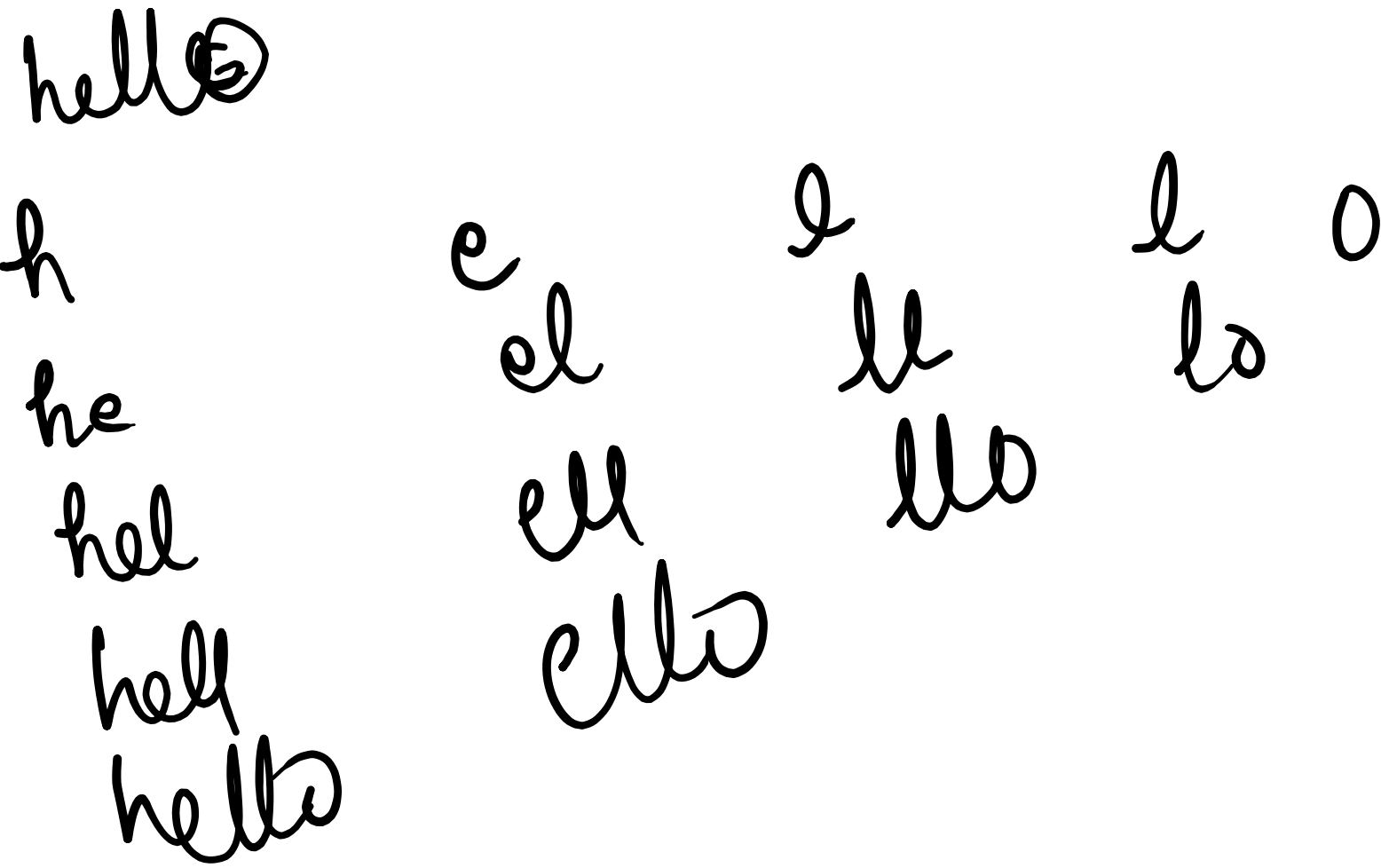
```
public static void main(String[] args) {  
    String s1 = "Hello";  
    String s2 = "Hello";  
    String s3 = new String("Hello");  
    //s1 = s1 + "Bye";  
    s1.concat("bye"); // two string add hota hai  
}
```



opt

Konak
Komal

```
String s="codingblocks";  
s.substring(3,8)
```



for (i=0; i < s.length(); i++)
 for (j=i+1; j < s.length(); j++)
 if (s.charAt(i) < s.charAt(j))