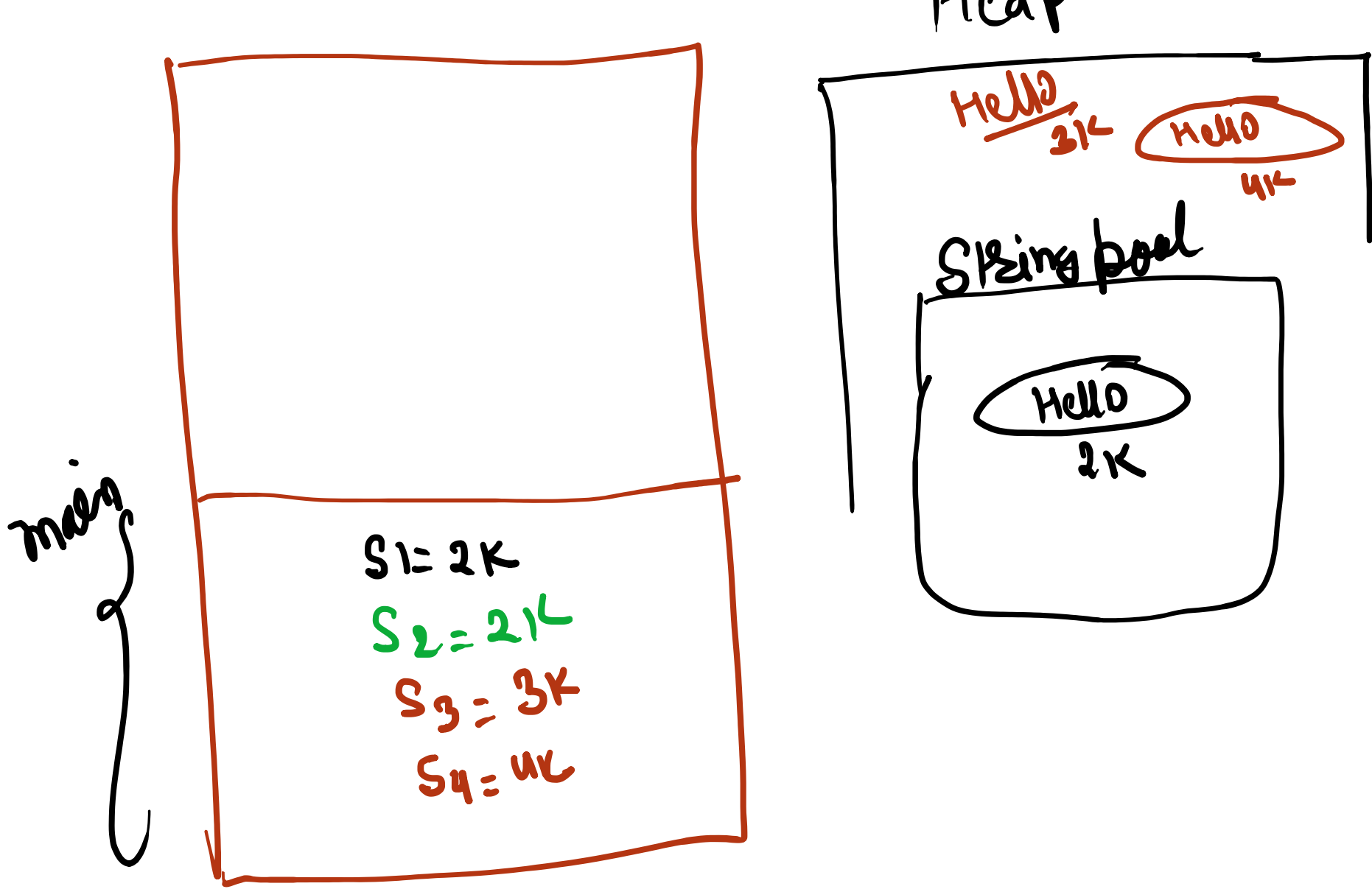
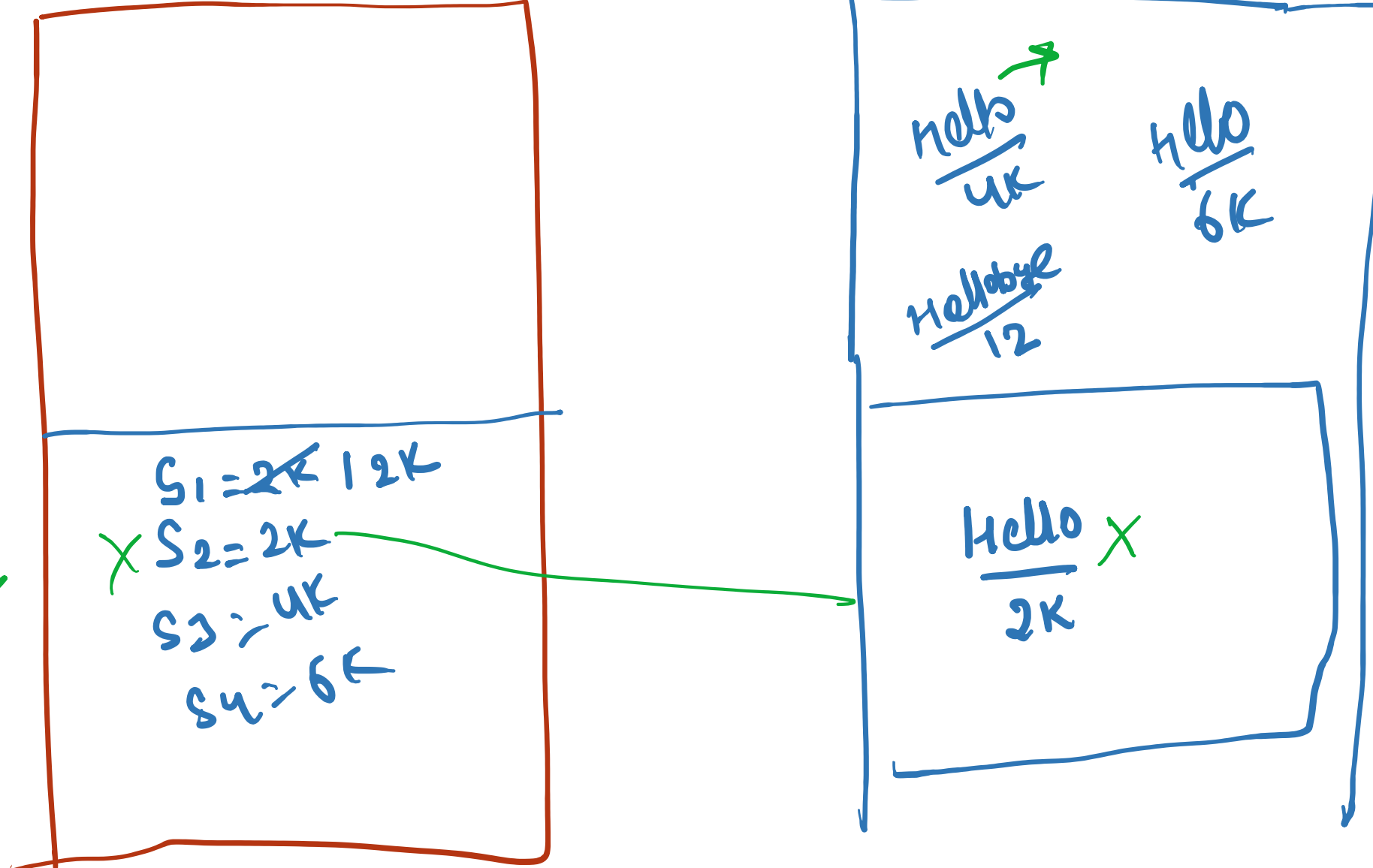


String
↳ Java class
↳ non-primitive
↳ Heap memory

```
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) {
    // TODO Auto-generated method stub
    String s1 = "Hello";
    String s2 = "Hello";
    String s3 = new String("Hello");
    String s4 = new String("Hello");
    System.out.println(s1);
    System.out.println(s2);
    System.out.println(s3);
    System.out.println(s1 == s2);
    System.out.println(s1 == s3);
    System.out.println(s3 == s4);
    s1 = s1 + "Bye";
    System.out.println(s1);
}
```



Palindromes
Aman → namA
→ nama n
niti n

Lexico-graphically
Kunal < Kumar
Komal
Kunal
Ran
Zai
Rajesh
s ← Ankit
g ← Ankit q

```
public static int compareTo(String s1, String s2) {
    int n = Math.min(s1.length(), s2.length());
    for (int i = 0; i < n; i++) {
        if (s1.charAt(i) != s2.charAt(i)) {
            return s1.charAt(i) - s2.charAt(i);
        }
    }
    return s1.length() - s2.length();
}
```

5-6

abcd
a
ab
abc
abcd
b
bc
bcd
c
cd
d

hello
0 1 2 3 4

hello
0 1 2 3 4

i j
[0-1] h
[0-2] he
[0-3] hel
[0-4] hell
[0-5] hello

i j
[1-2] e
[1-3] el
[1-4] ell
[1-5] ello

i j
[2-3] ll
[2-4] llo
[2-5] llo

i j
[3-4] lo
[3-5] llo

for (i = 0; i < s1.length(); i++)
for (j = i; j < s1.length(); j++)

abcd

1d →
1b →
1c →
1e →
1h →

a b c d e f g h i

abcd

a b c d a

```
public static boolean Unique(String s) {
    int[] freq = new int[26];
    for (int i = 0; i < s.length(); i++) {
        char ch = s.charAt(i);
        freq[ch - 97] = freq[ch - 97] + 1;
    }
}
```

97 97

98 98

99 99

the sky is blue

blue is sky the

the sky is blue

A Good String is a string which contains only vowels (a,e,i,o,u) . Given a string S, print a single positive integer N where N is the length of the longest substrings of S that is also a Good String.

Note: The time limit for this problem is 1 second, so you need to be clever in how you compute the substrings.

ans = 35

ans = 0

Count = 0

```
for (i = 0; i < s.length(); i++) {
    char ch = s.charAt(i);
    if (isVowel(ch)) {
        c++;
    }
    ans = max(ans, c);
    c = 0;
}
```

ans = max(ans, c)