 Software Solutions To Coding Challenges

StringBuffer & StringBuilder

for Java Certification

① Difference between String & StringBuffer
* mutability via Immutability

② String object creation: Heap & SCP
* equals() method

③ Importance of String Constant pool

④ Important Features on String and StringBuffer

⑤ Important Constructors of String class

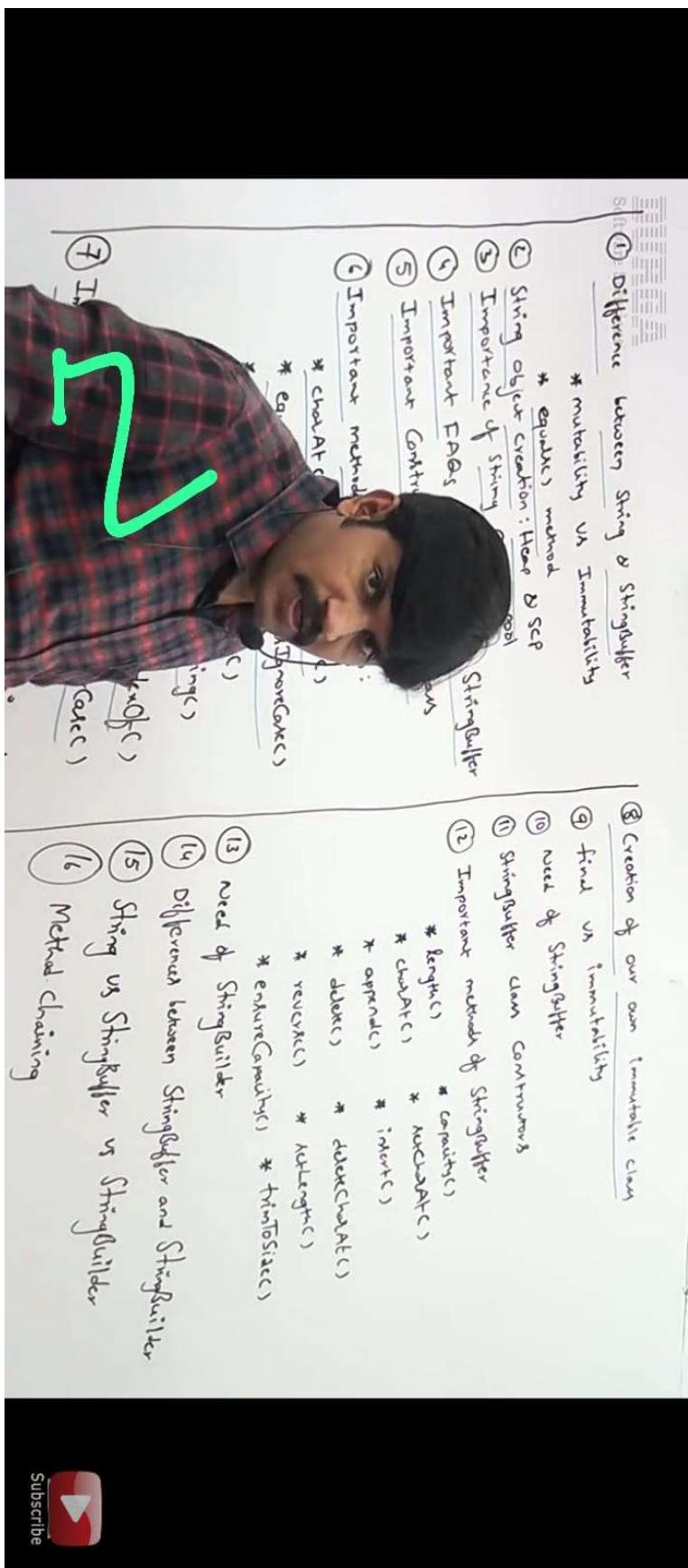
⑥ Important methods of String class:
* charAt()
* concat()
* equals()
* equalsIgnoreCase()
* isEmpty()
* length()
* replace()
* nullString()
* indexOf()
* lastIndexOf()
* toLowerCase()
* toUpperCase()
* trim()

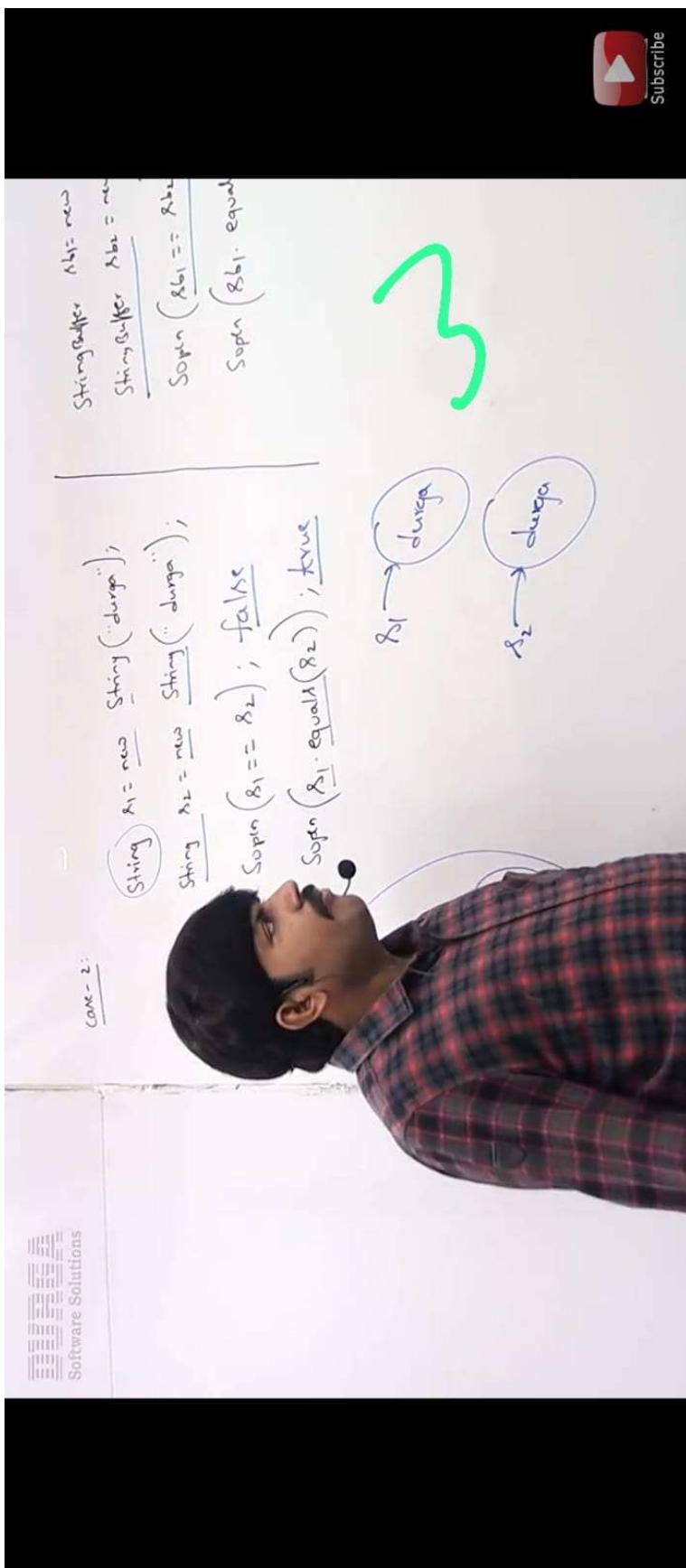
⑦ Important Constructors of StringBuffer

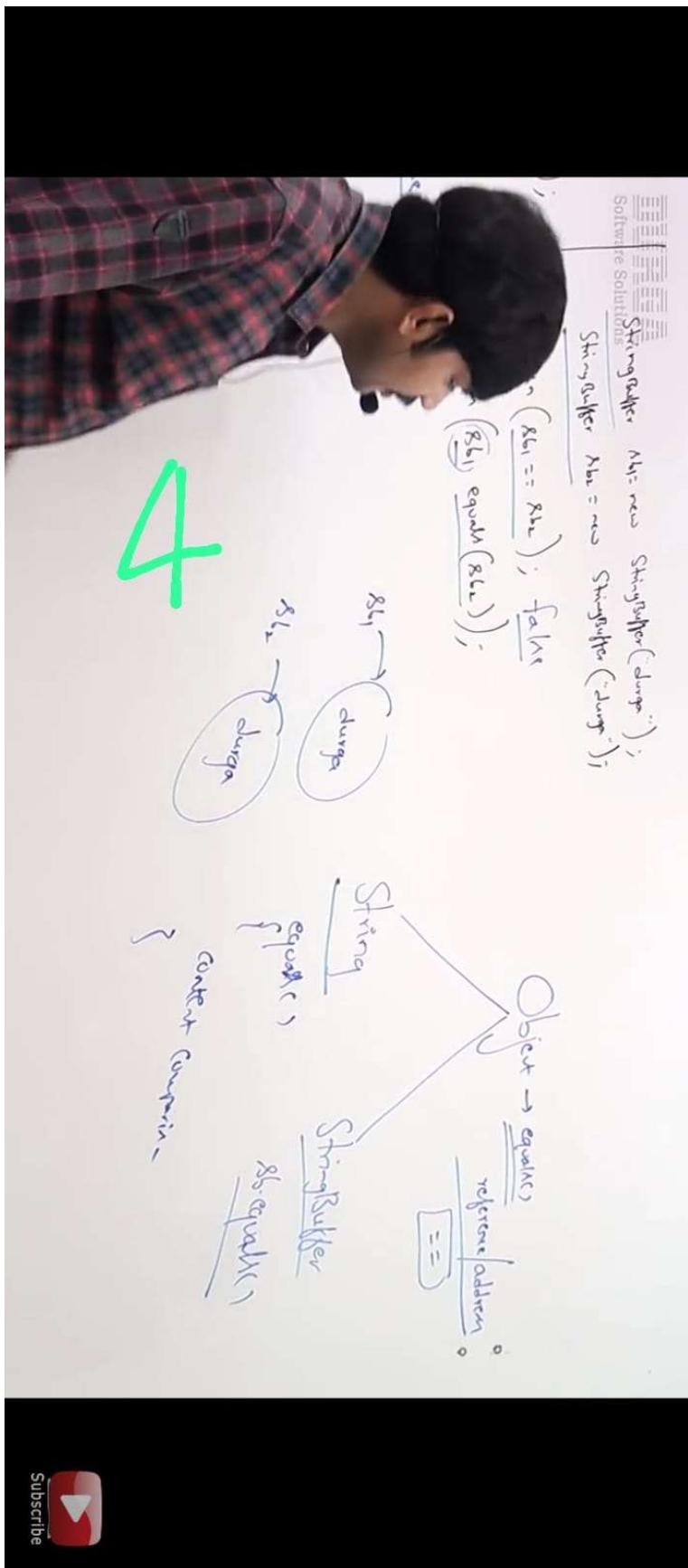
⑧ Creation
⑨ find
⑩ next
⑪ String
⑫ Trim

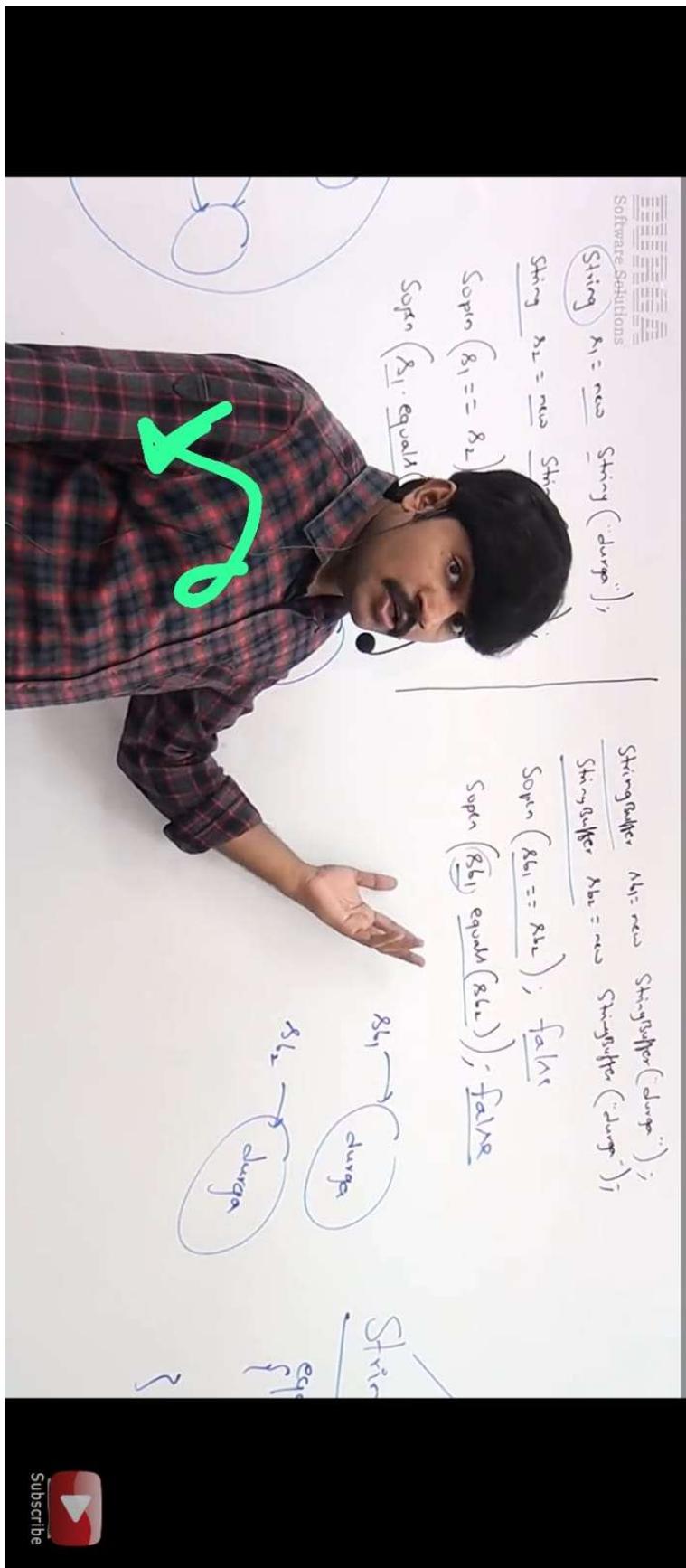
⑬
⑭
⑮
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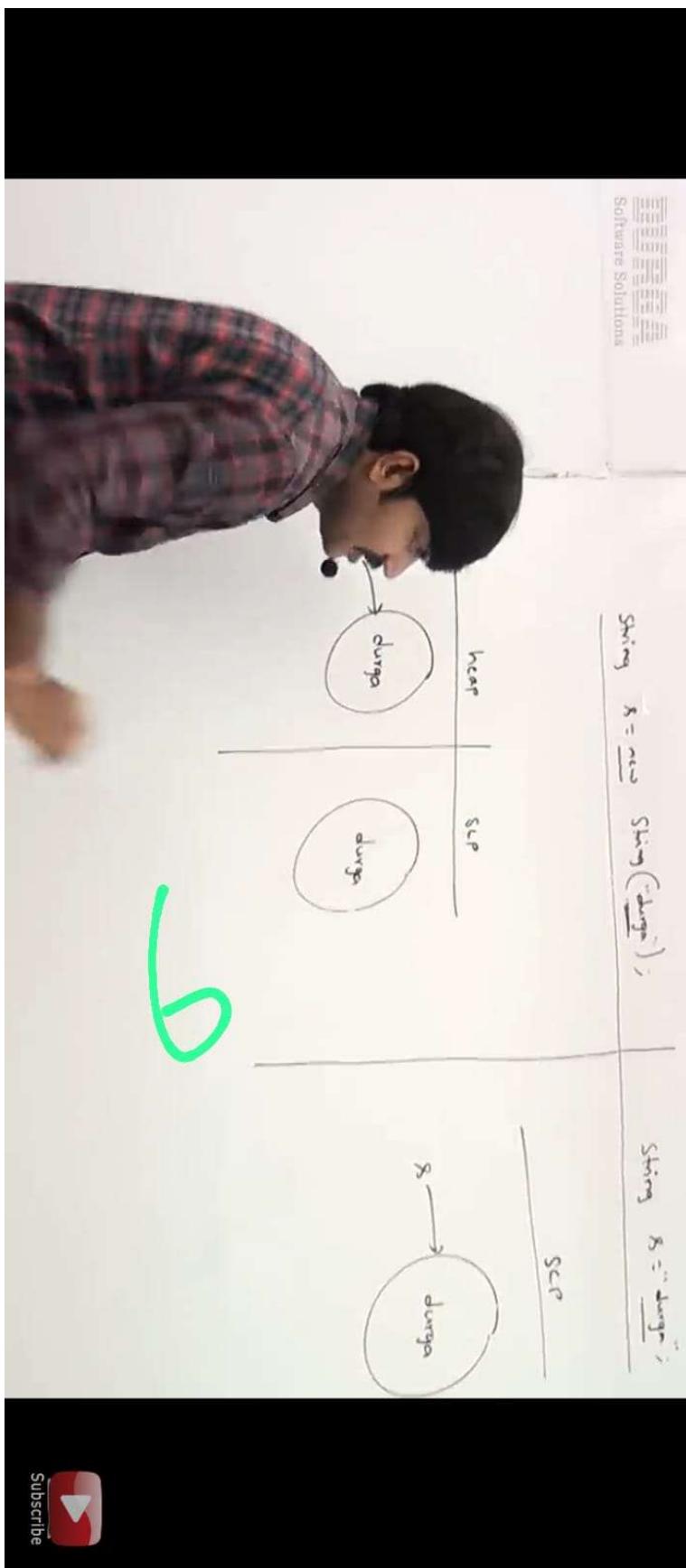
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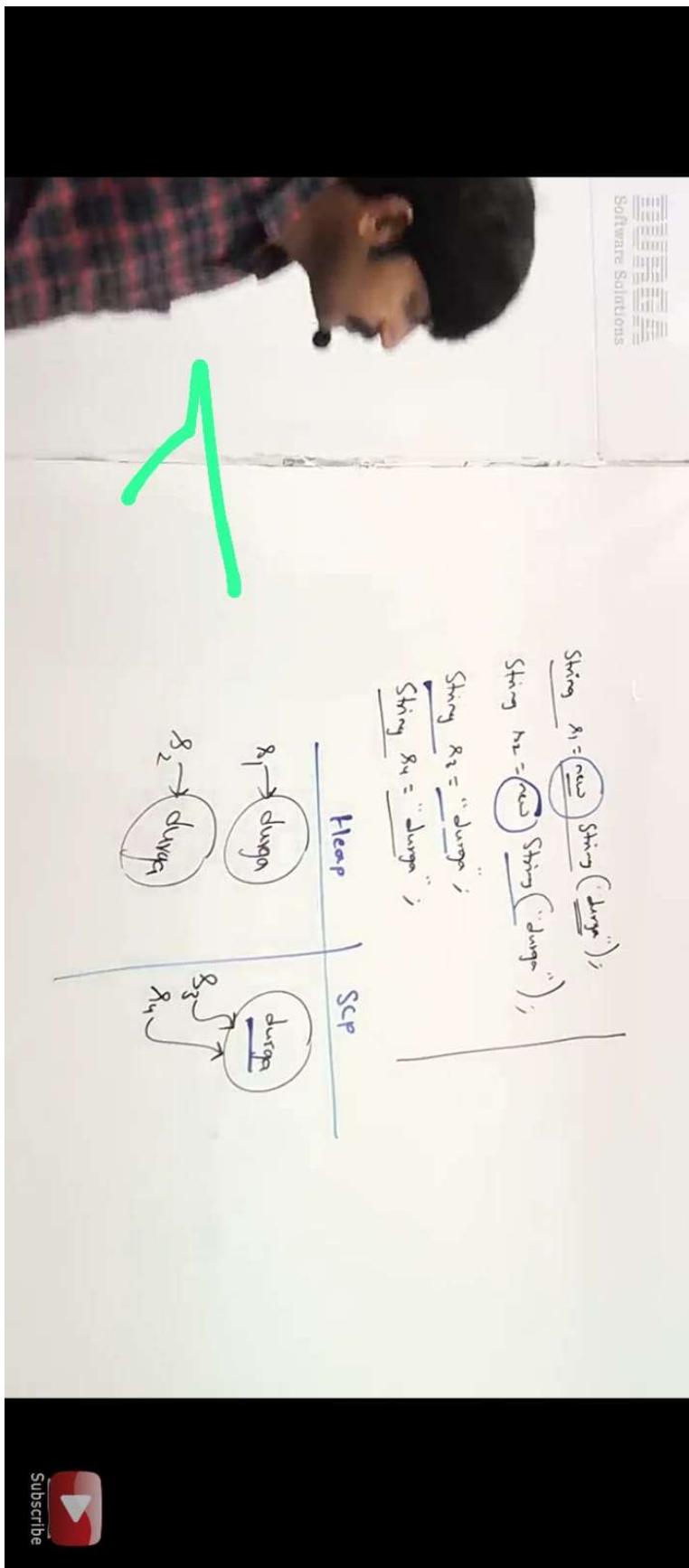


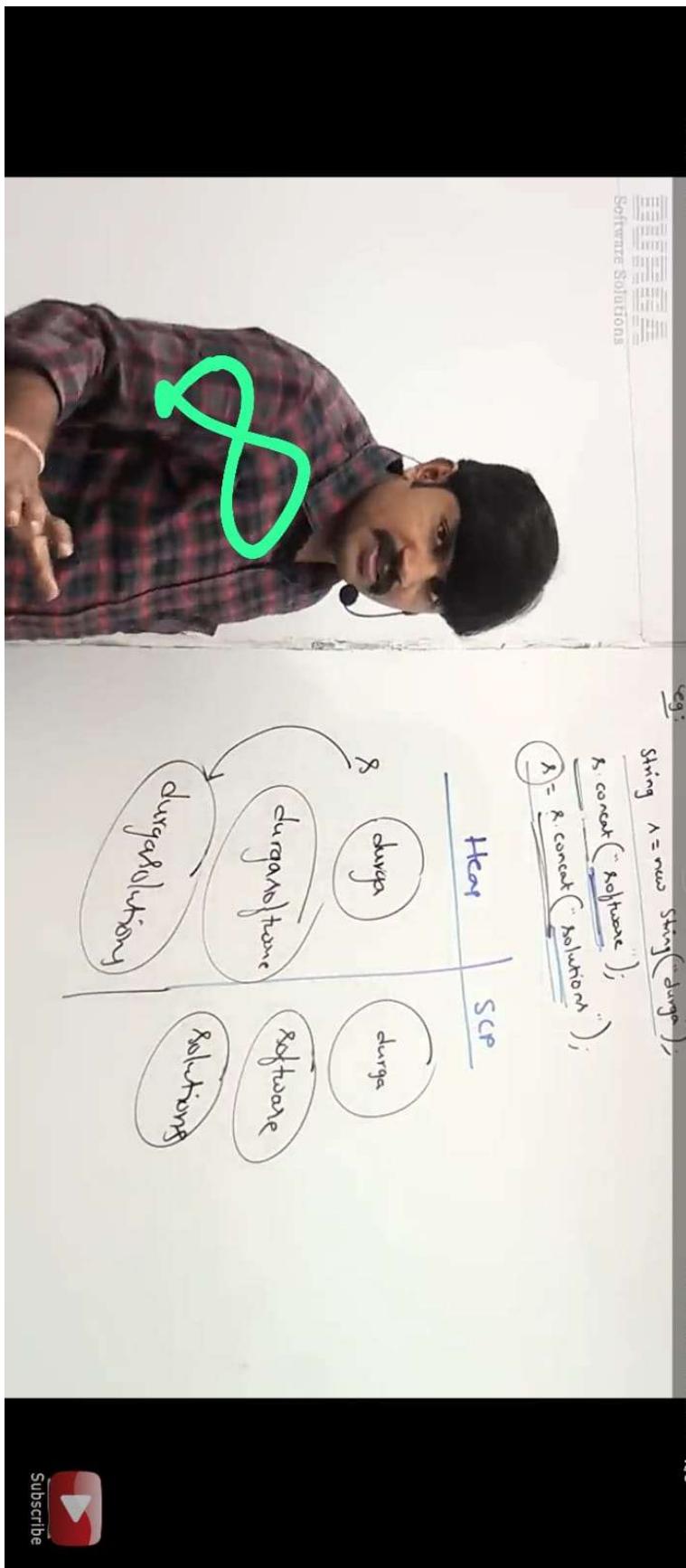


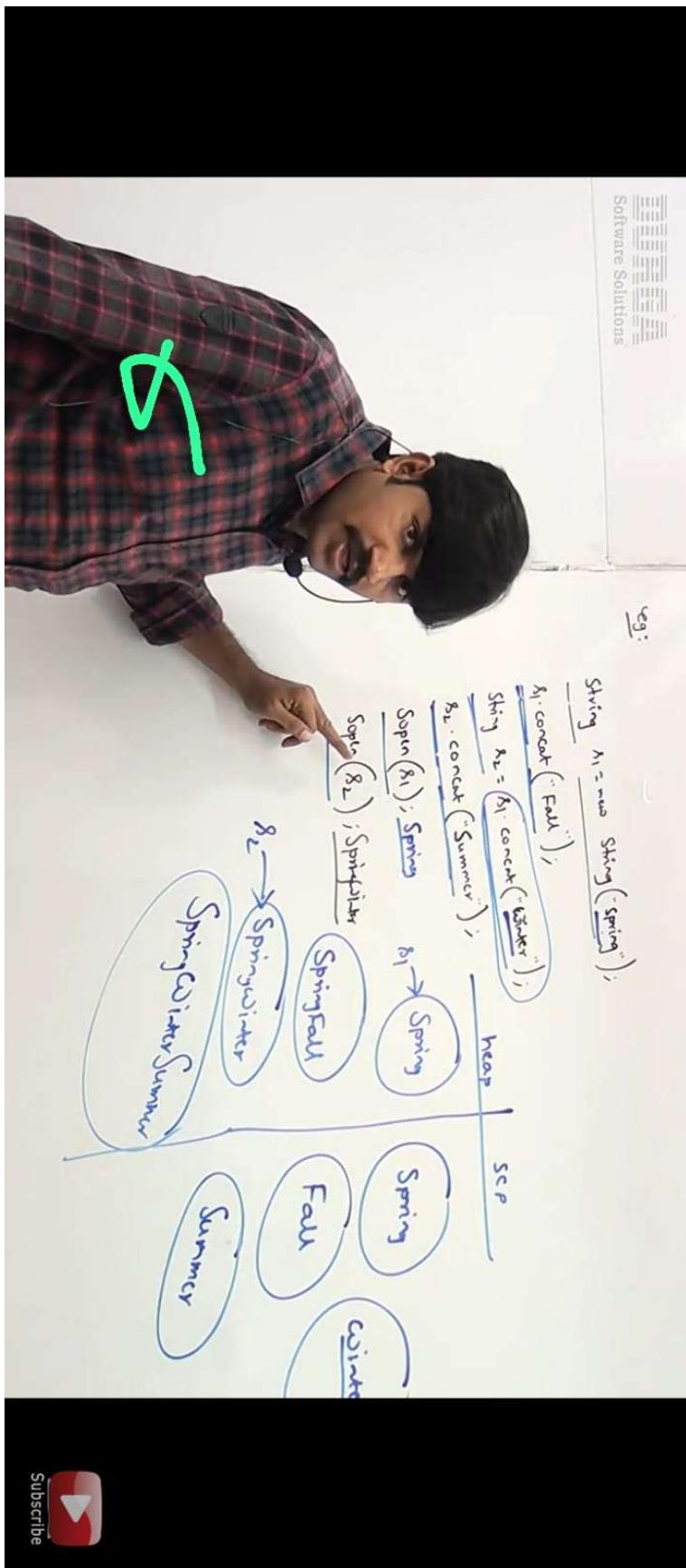


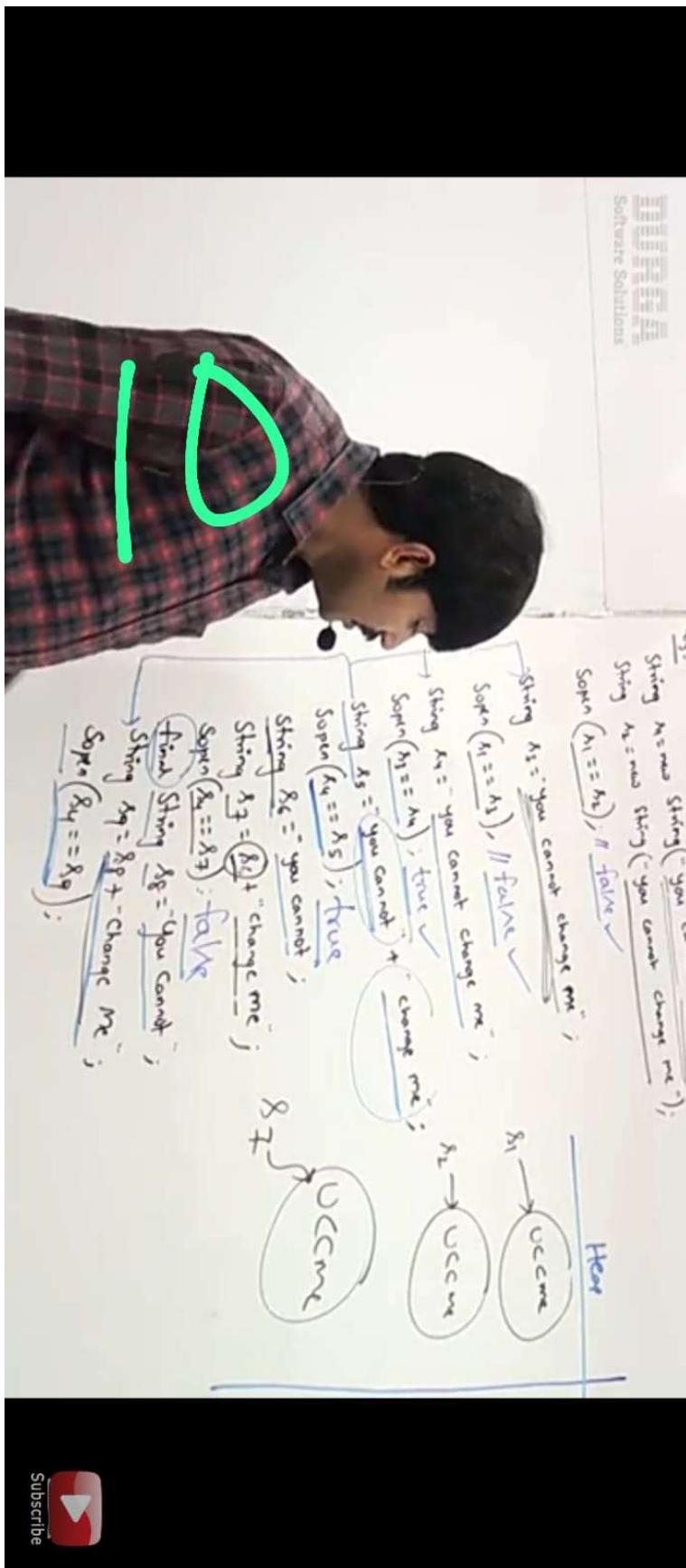


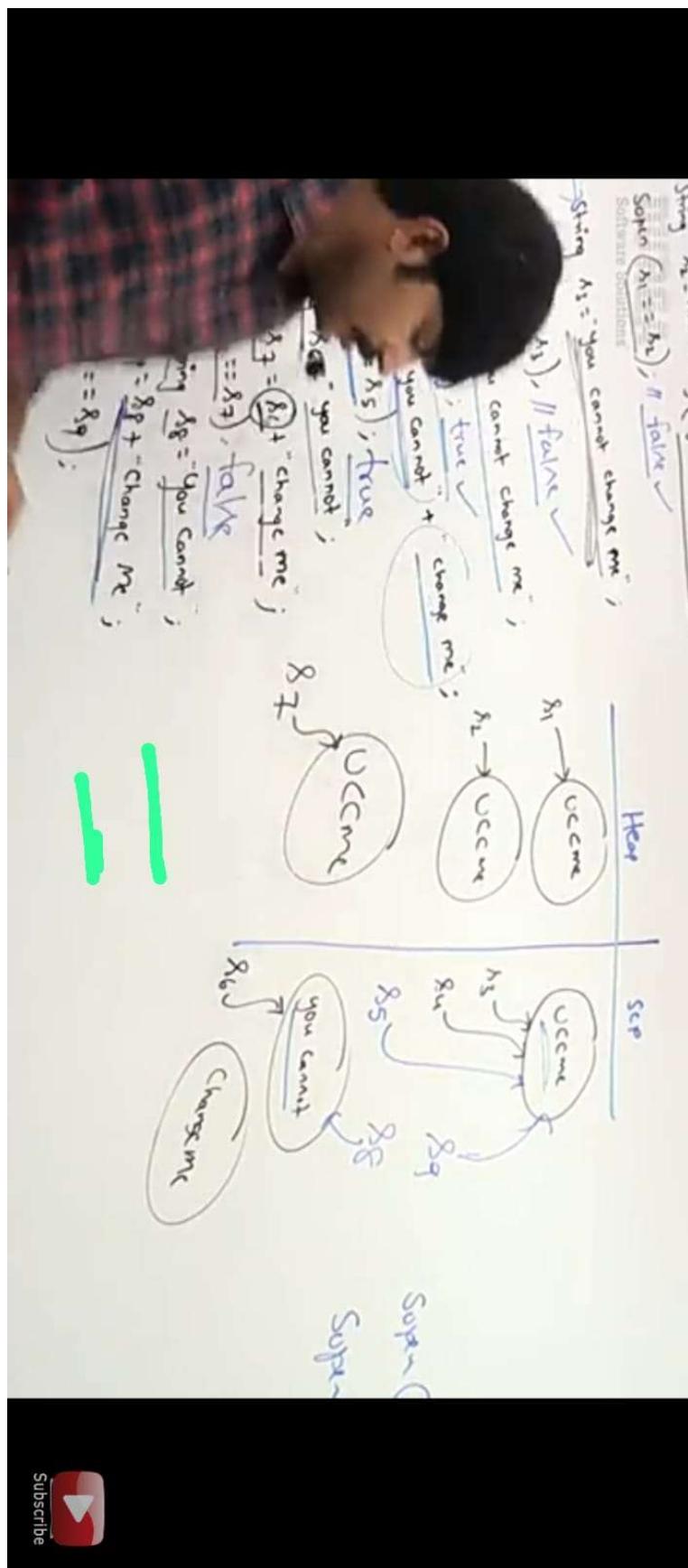












```

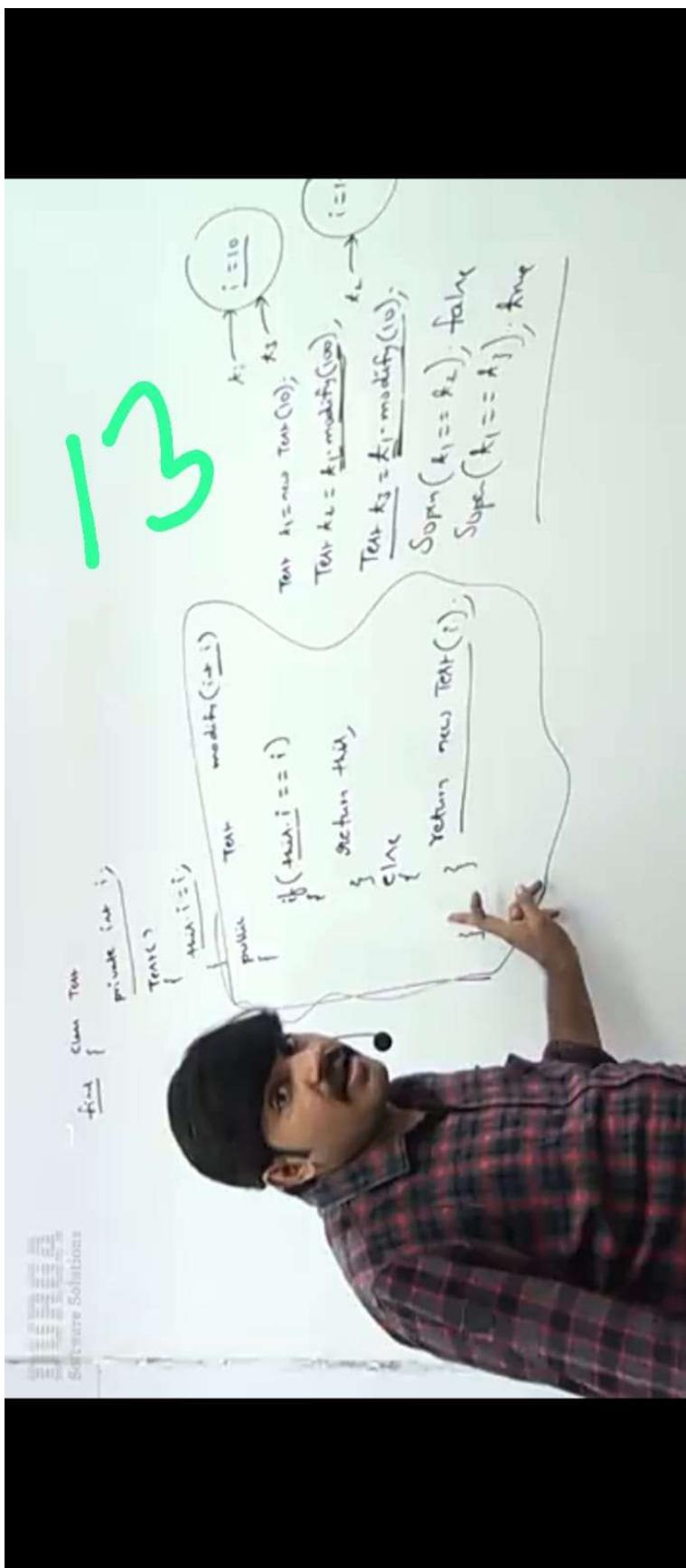
1. package com;
2. class Test {
3.     private int i;
4.     test(int i)
5.     {
6.         String s1 = "durgesh";
7.         String s2 = "durga";
8.         public void modify(int i)
9.         {
10.             String s3 = s1 + s2;
11.             return this;
12.         }
13.         else
14.         {
15.             System.out.println("DURGA");
16.         }
17.     }
18.     public static void main(String[] args)
19.     {
20.         Test t1 = new Test(10);
21.         t1.modify(100);
22.         Test t3 = t1.modify(10);
23.         System.out.println(t1==t2);
24.         System.out.println(t1==t3);
25.     }
26. }

```

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Software Solutions

which of the following are meaningful?

final variable

final object

Immutable Variable

Immutable Object

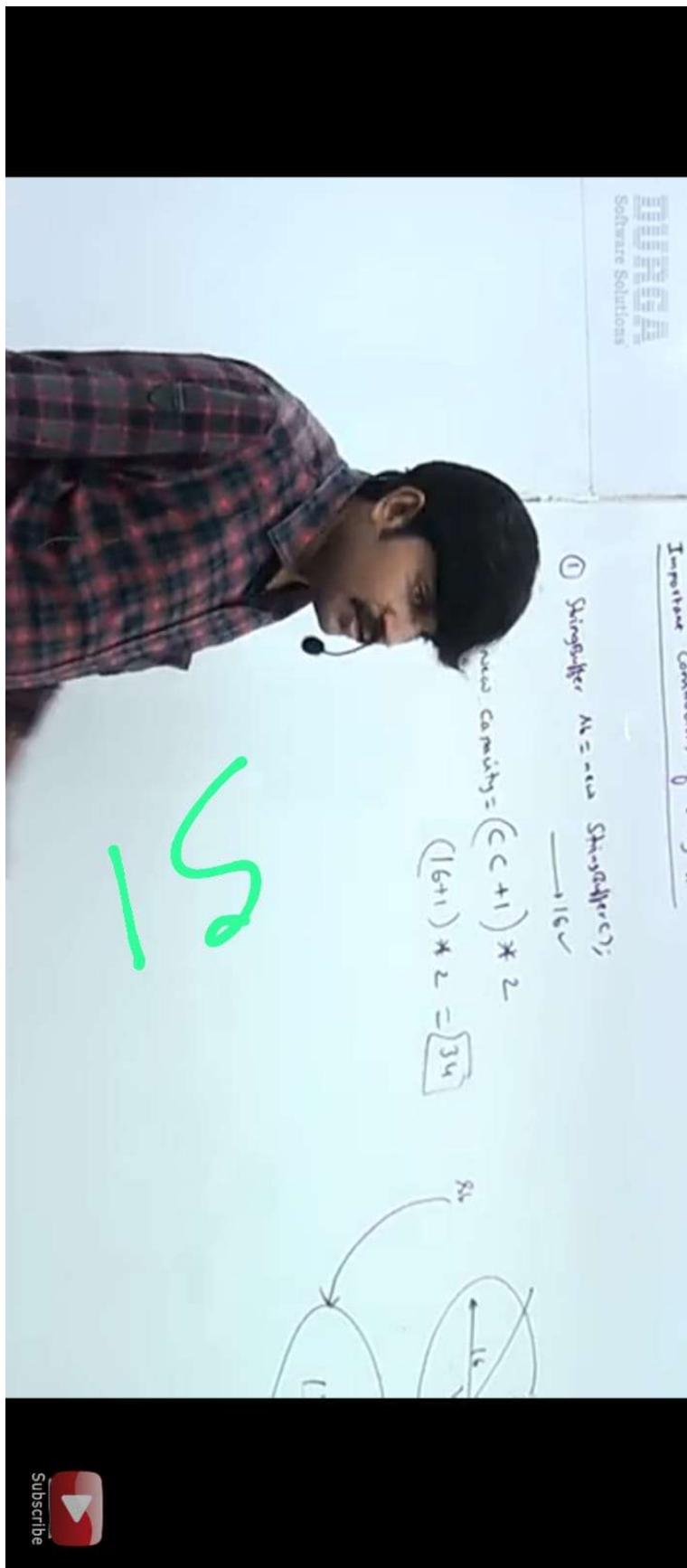
final var immutable

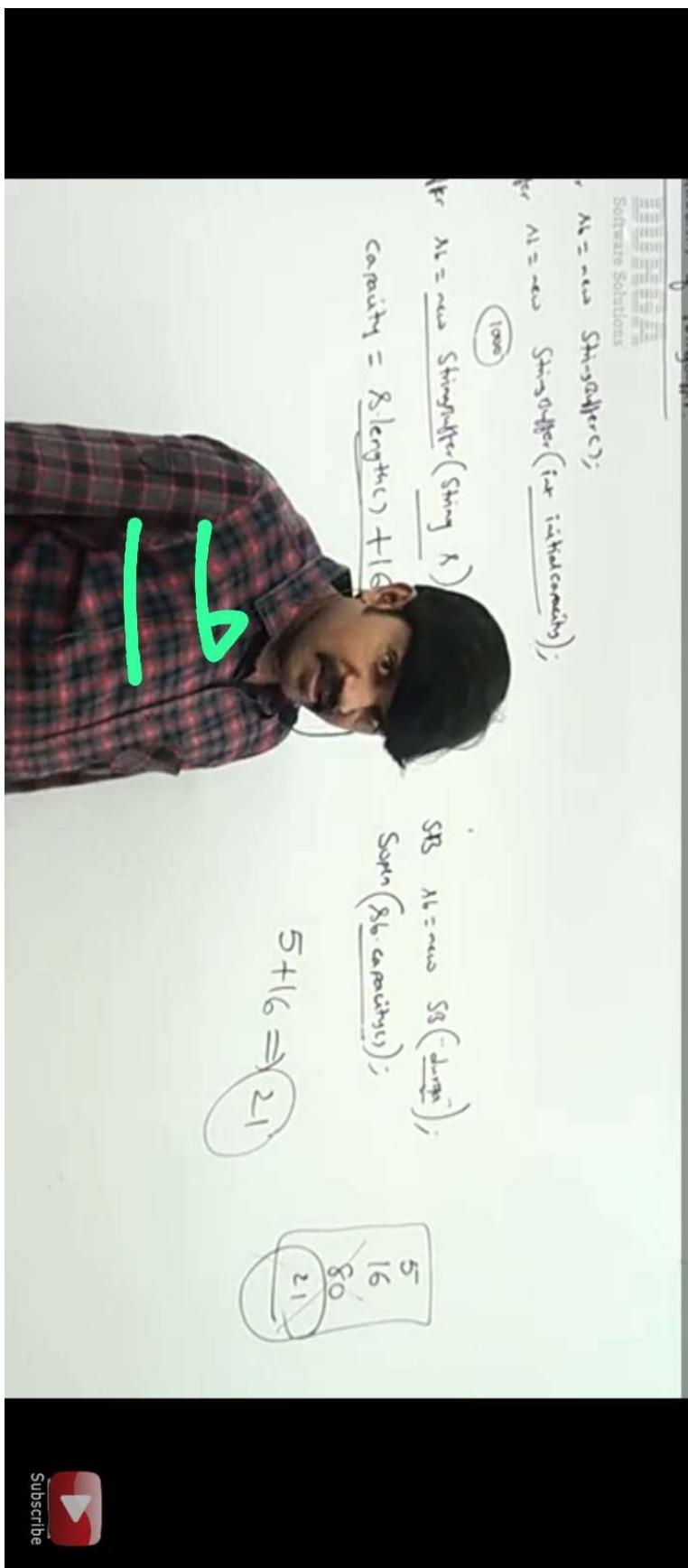
test

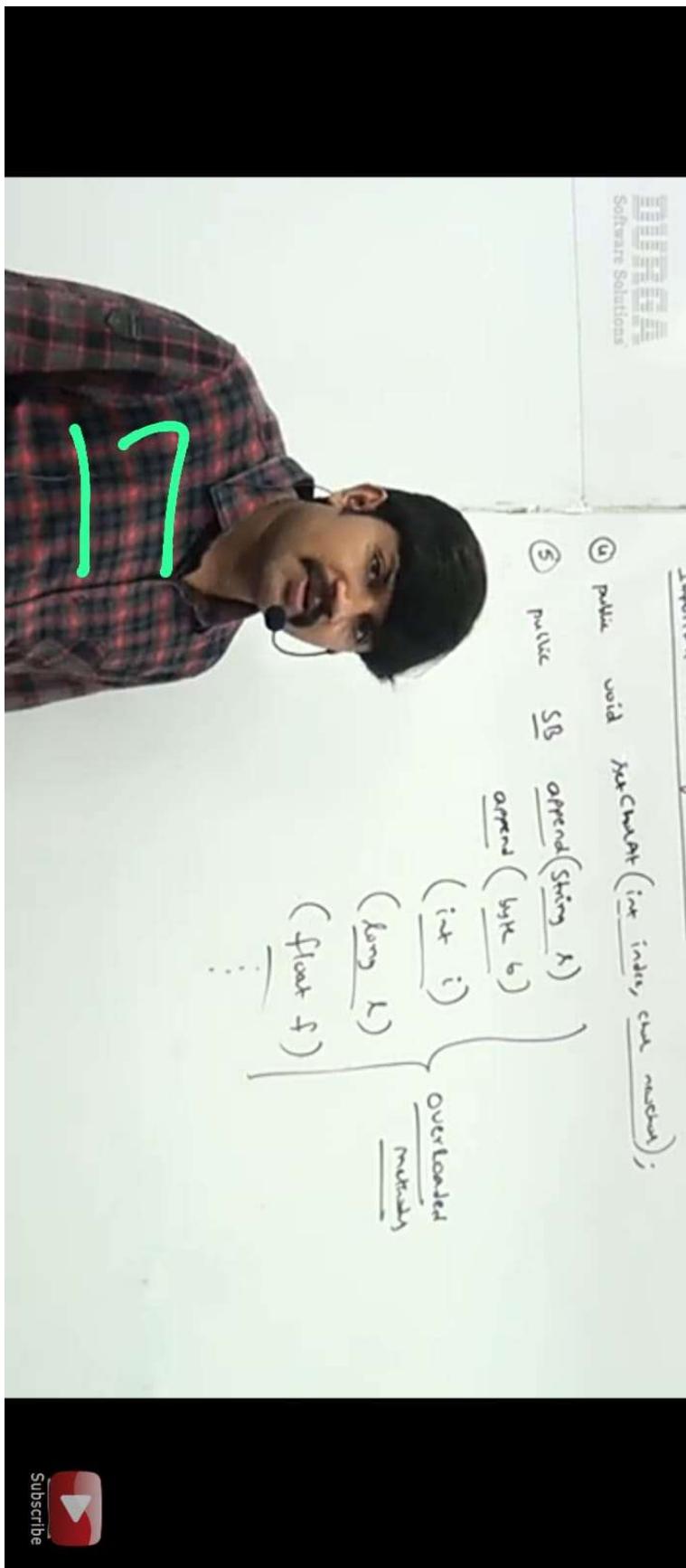
```
    ~ main(String[] args)
        StringBuilder sb = new StringBuilder("dangi");
        sb.append("Nehru");
        sb.append("Rishi");
        System.out.println(sb);
```

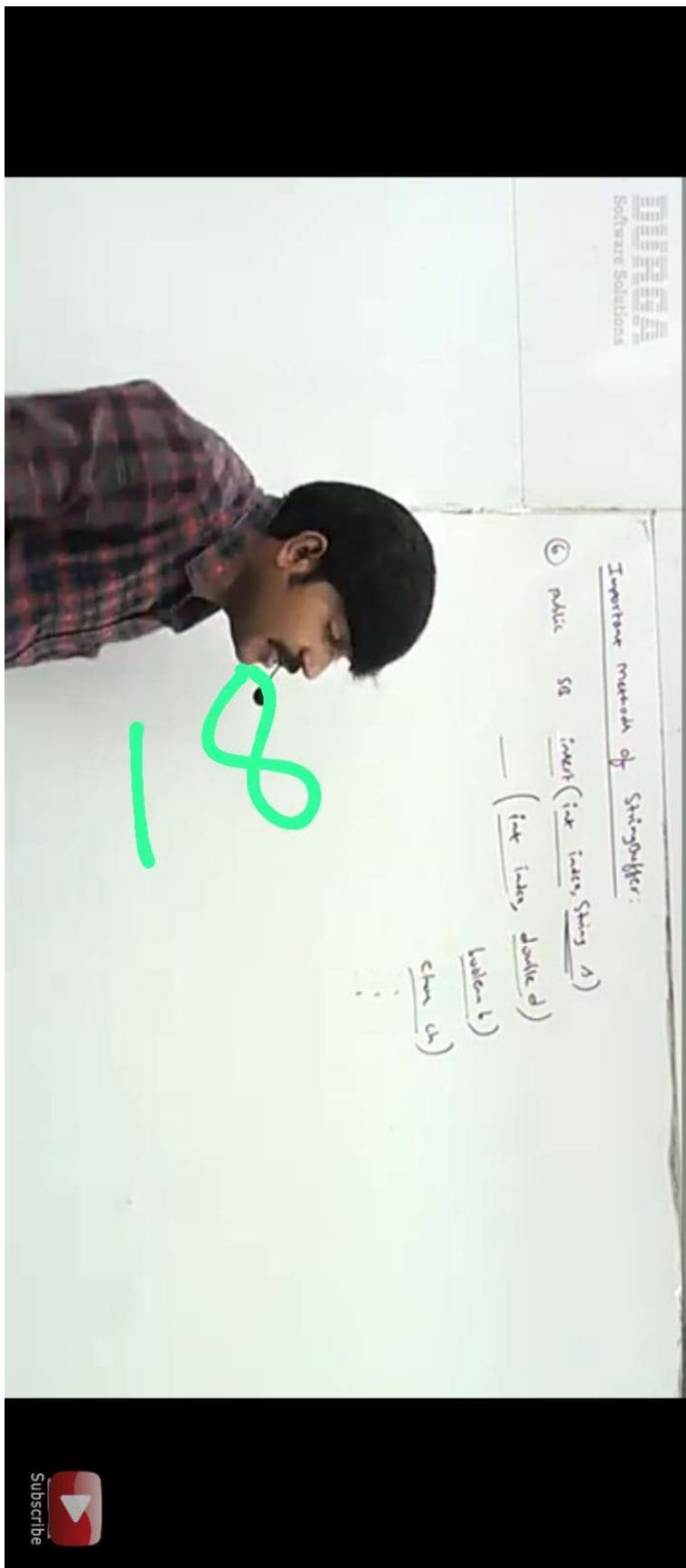
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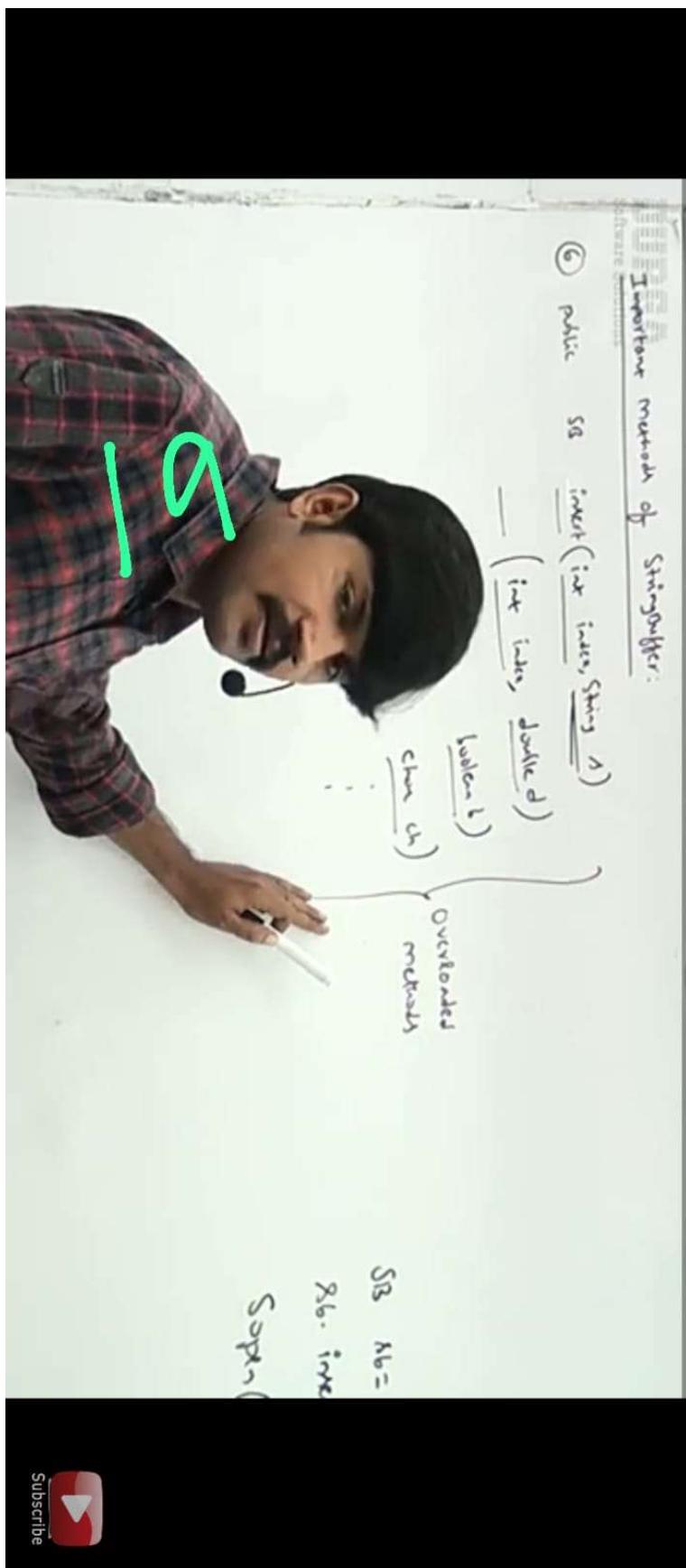
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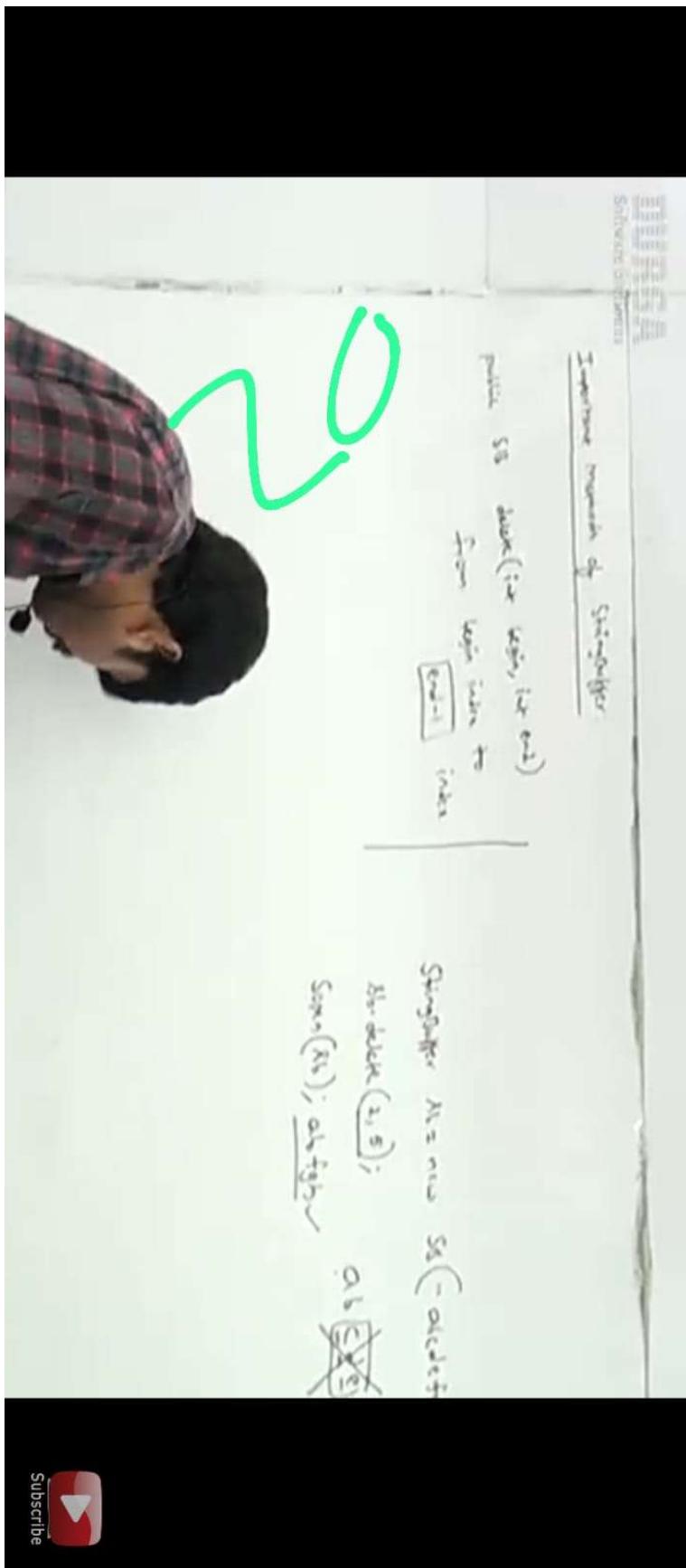


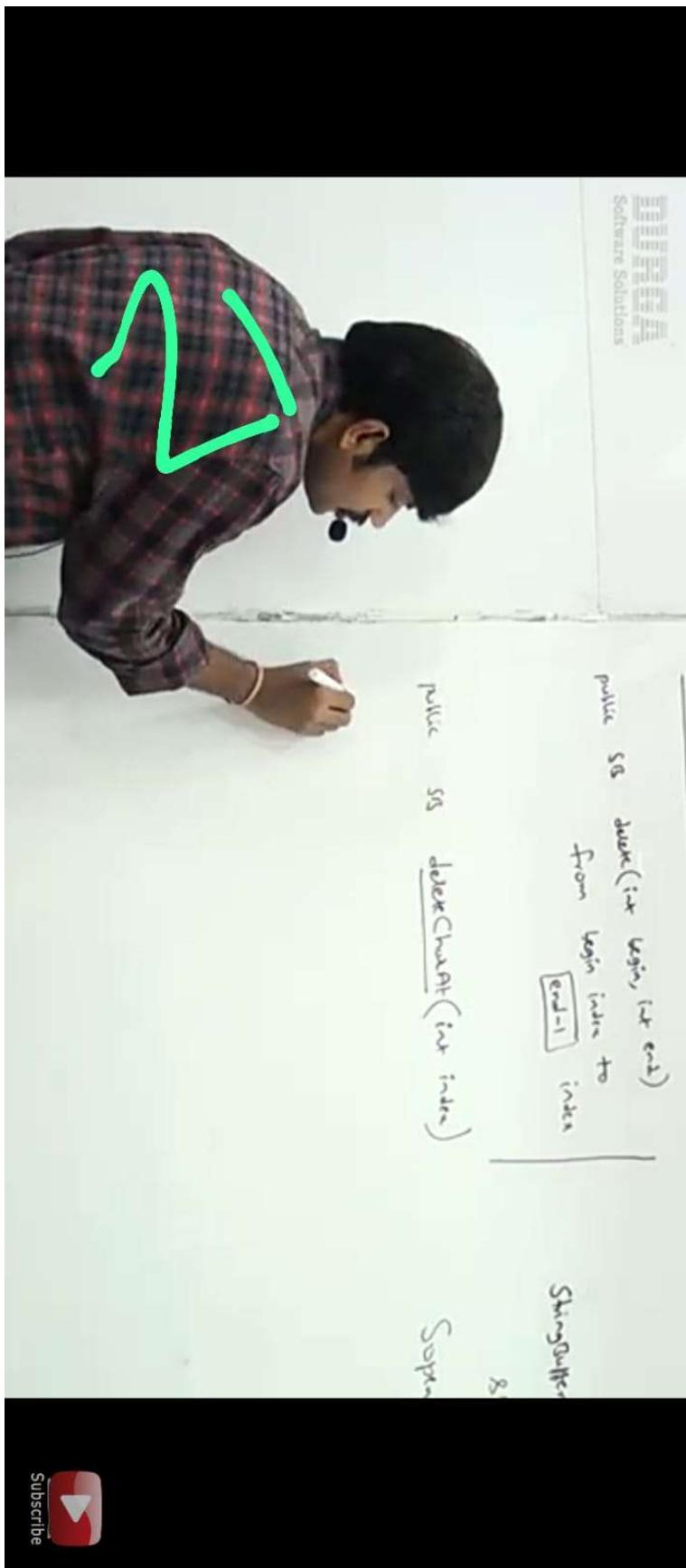


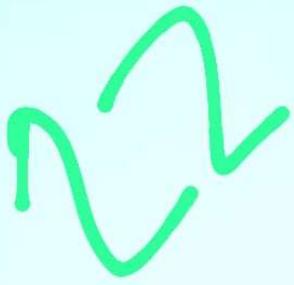












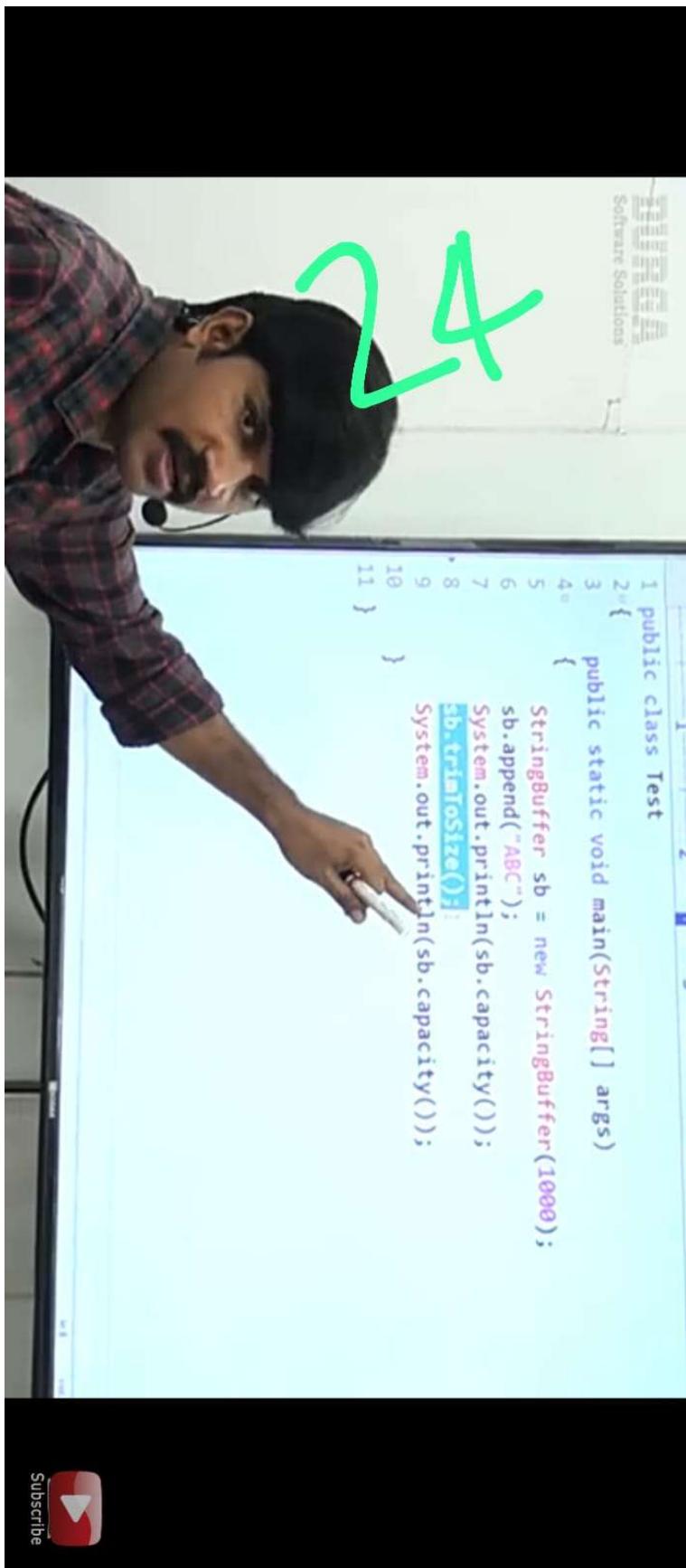
```
public class Test
{
    public static void main(String[] args)
    {
        StringBuffer sb = new StringBuffer("AiswaryaAbhi");
        sb.setLength(8);
        System.out.println(sb);
    }
}
```

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```
1  public class Test
2 {
3     public static void main(String[] args)
4     {
5         StringBuffer sb = new StringBuffer();
6         System.out.println(sb.capacity());
7         sb.ensureCapacity(1000);
8         System.out.println(sb.capacity());
9     }
10 }
```





StringBuffer	StringBuilder
Every Method Present In StringBuffer Is Synchronized.	No Method Present In StringBuilder Is Synchronized.
At A Time Only One Thread Is Allow To Operate On StringBuffer Object And Hence It Is Thread Safe.	At A Time Multiple Thread Are Allowed To Operate On StringBuilder Object And Hence It Is Not Thread Safe.
Threads Are Required To Wait To Operate On StringBuffer Object And Hence Relatively Performance Is Slow.	Threads Are Not Required To Wait To Operate On StringBuilder Object And Hence Relatively Performance Is High.
Introduced In 1.0 Version.	Introduced In 1.5 Version.

