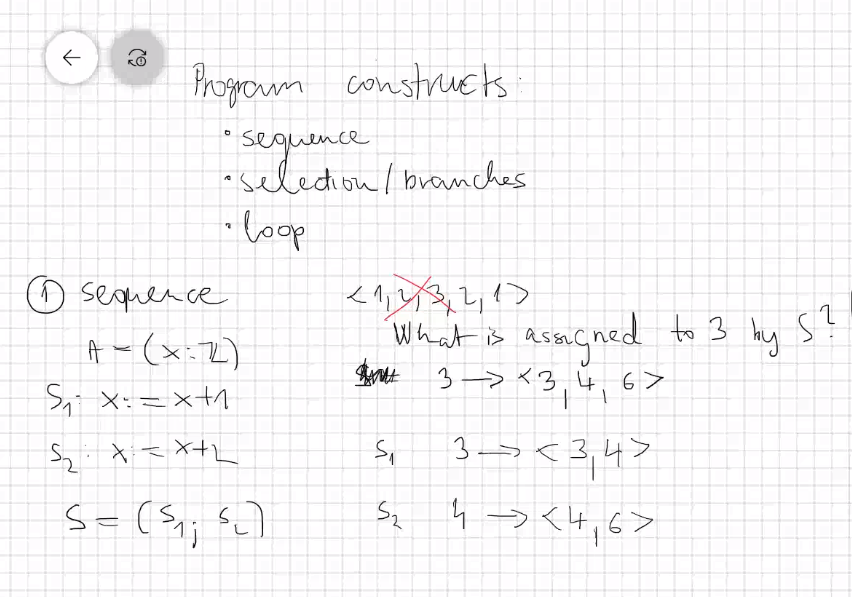
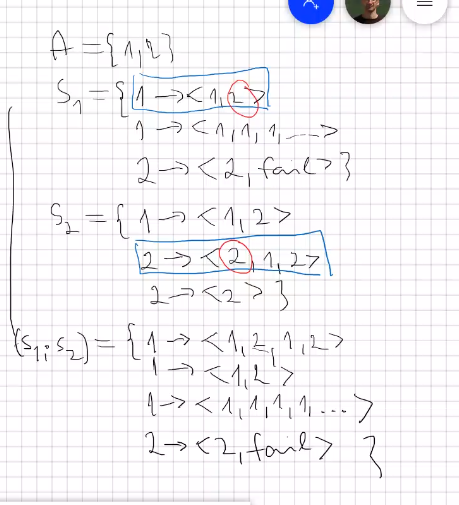
2020/11/11

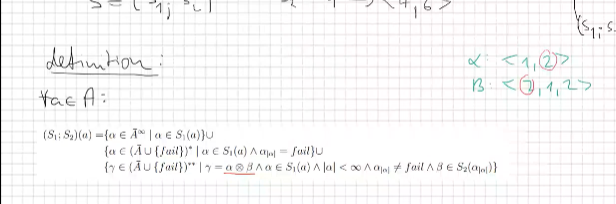
**Program constructs**



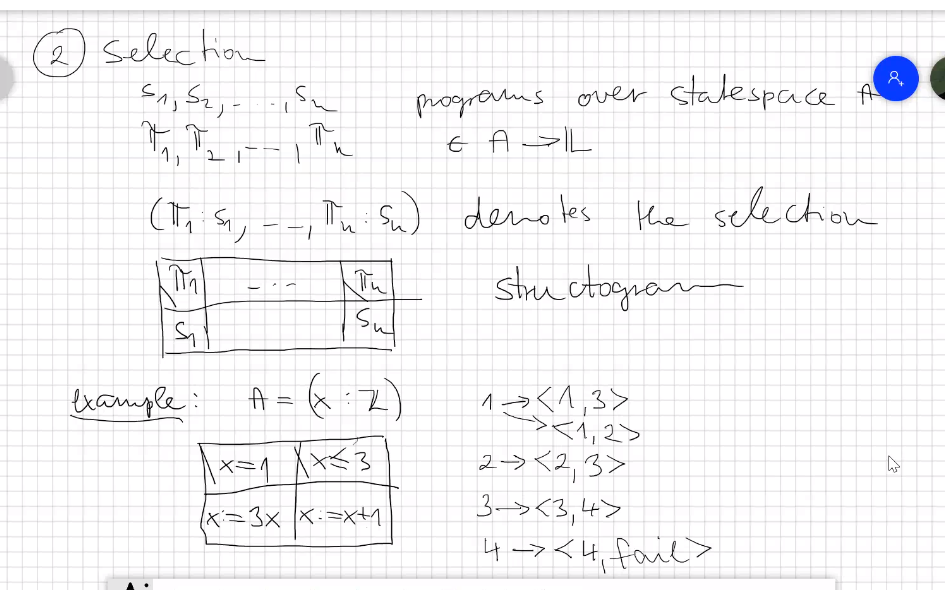
我们不在再写一遍1或者2；



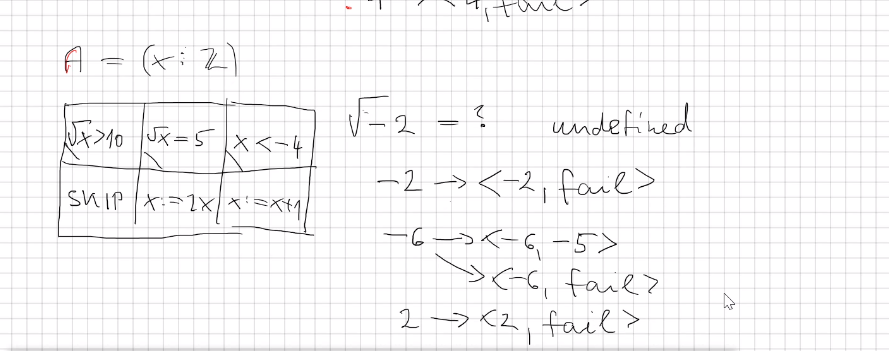
定义不明白：



**Selection:**



需要检查所有的条件，每个输入只能运行一次，也就是每一个的length只能是2

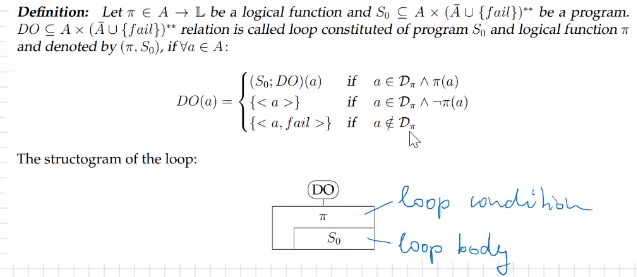


丢失一个定义页

Special selection

丢失一页

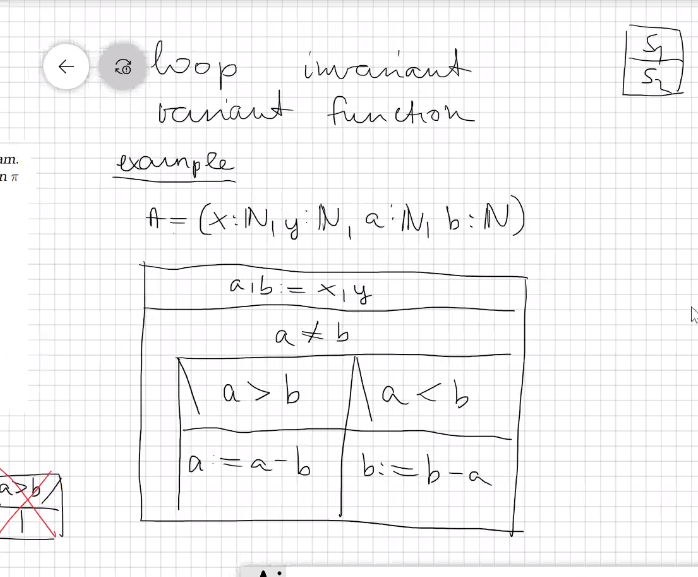
**Loop**

****

**Loop invariant**

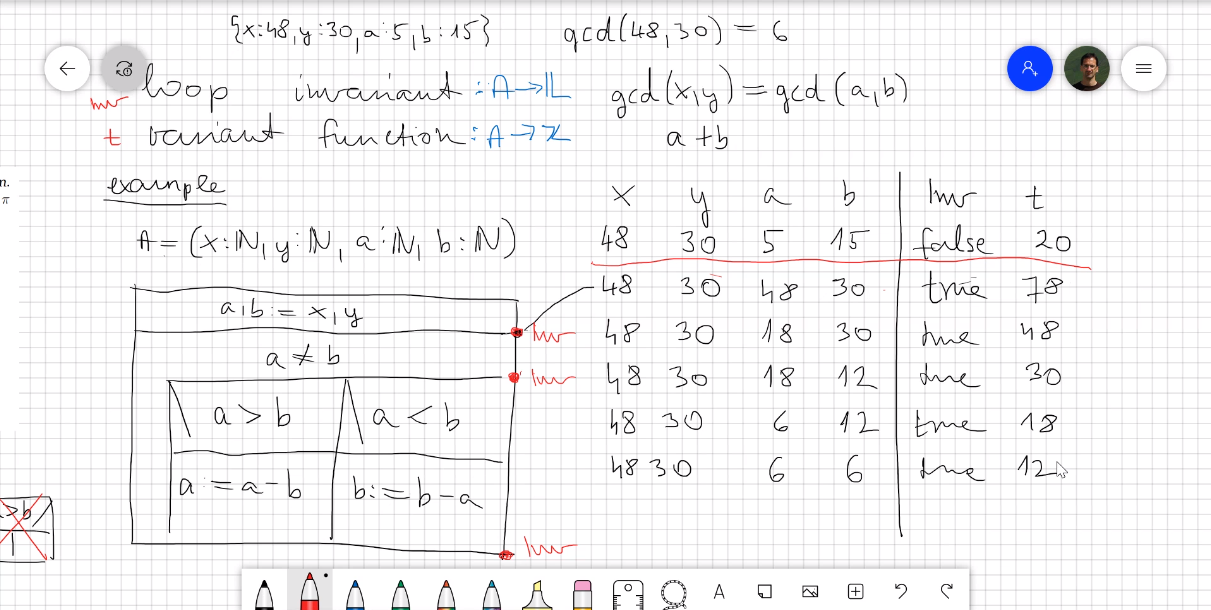
**Variant function**

**注意两个loop condition的区别:**

****

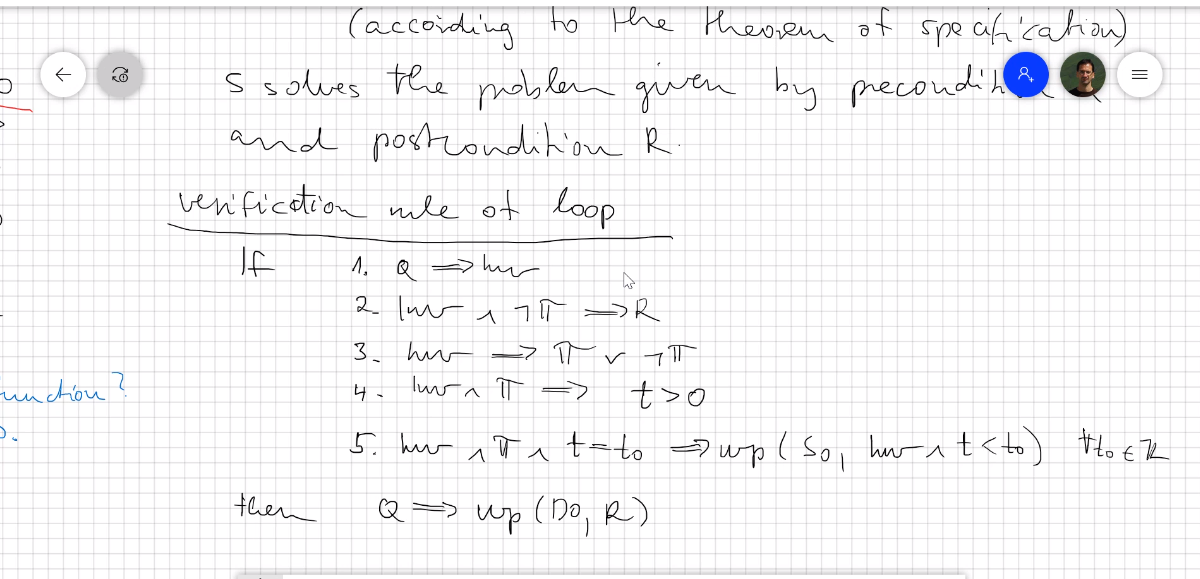
**Example:**

**在这个例子中，Variant function是 dicreasing 的，所以a不能作为Variant function**

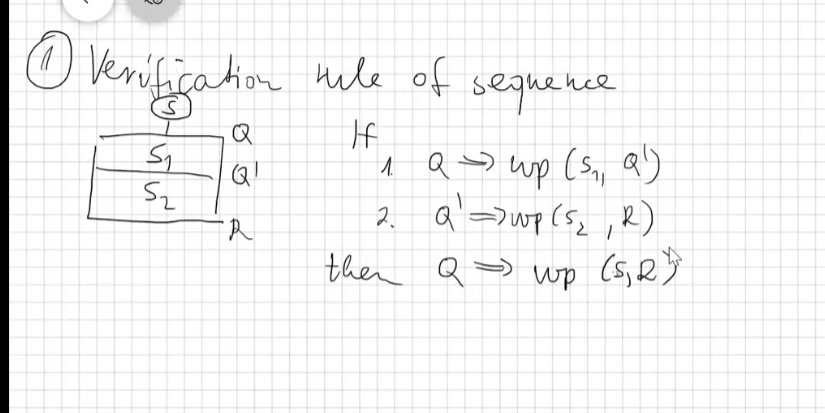
****

**Verification rule of loop:**

**缺失半页定义**

****

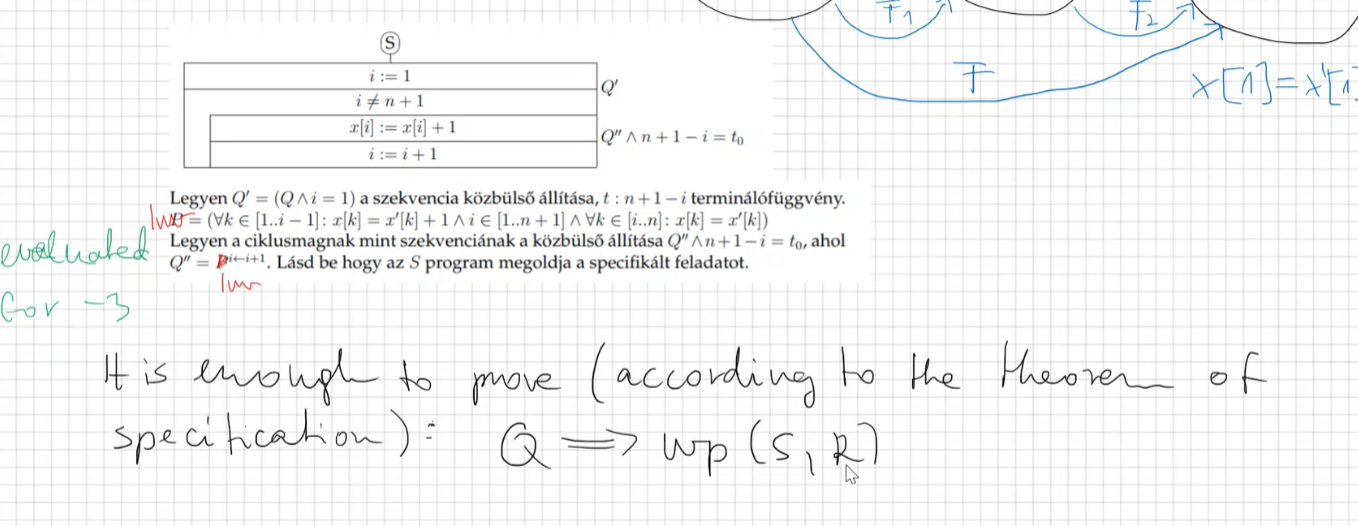
11/18/20

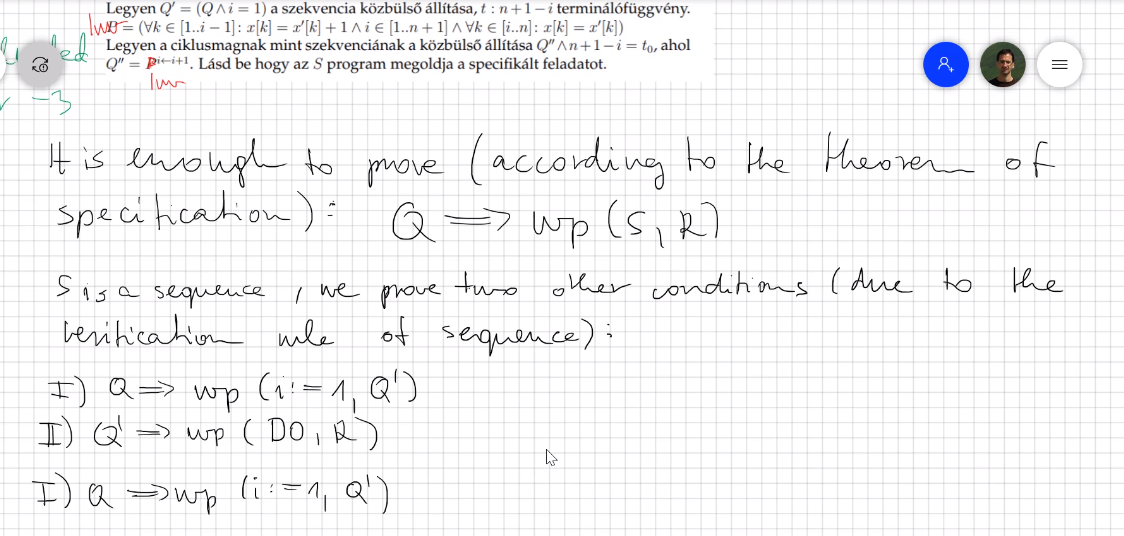


**Verification rule of selection:**

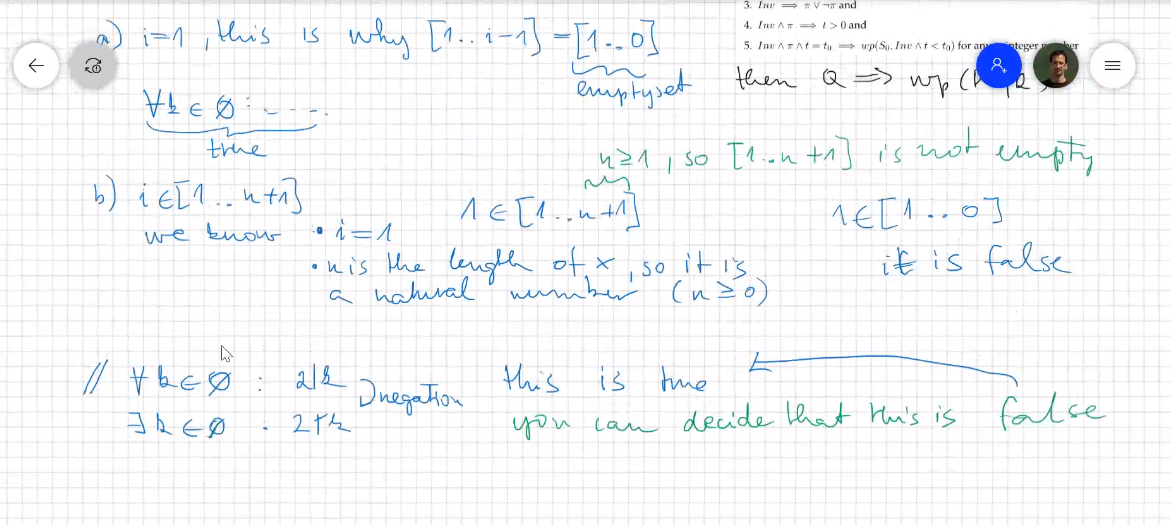
****

**一个loop的例子**

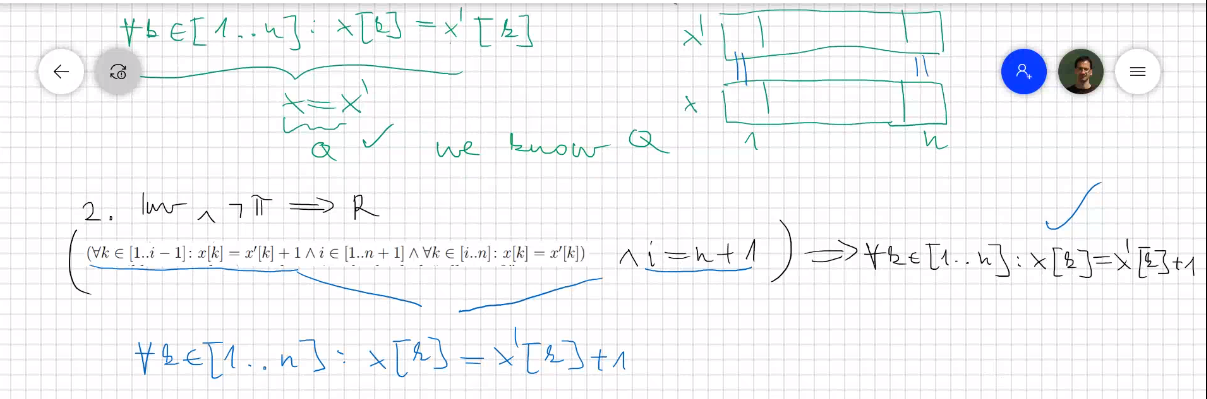
**应该是loop的证明方法**

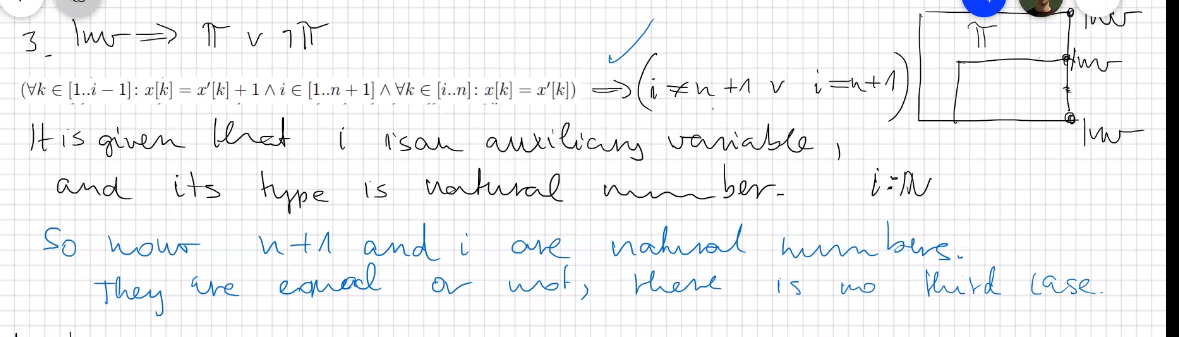
****

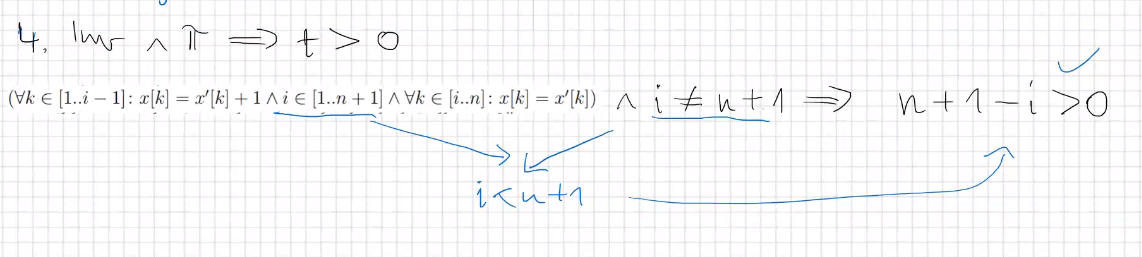
**漏半页**

****

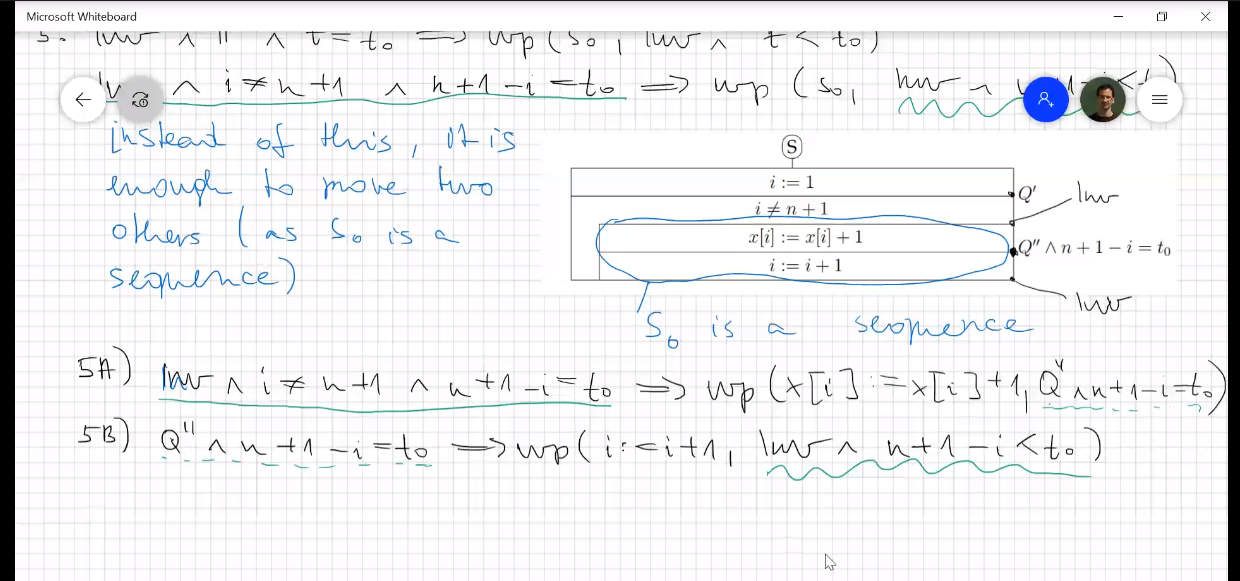
**漏半页**

****

****

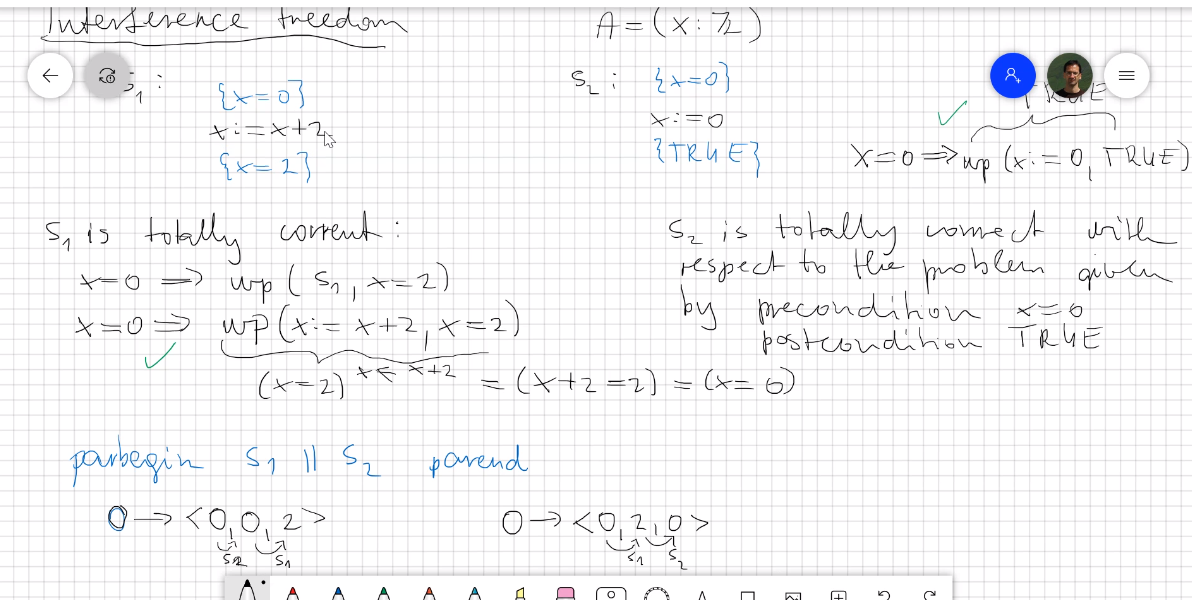
****

**S0 是 loop body**

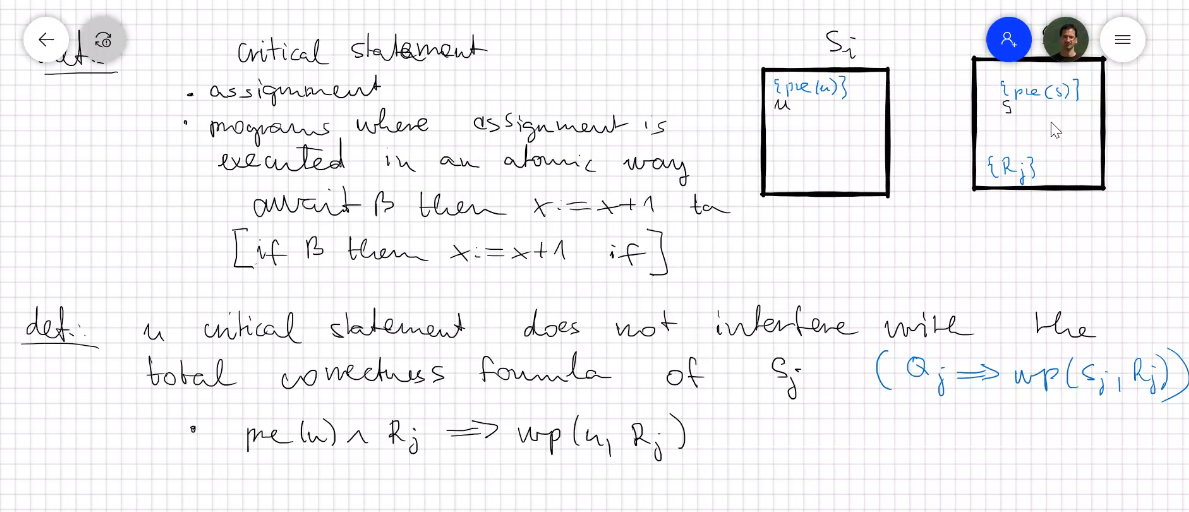
****

**12/2/20**

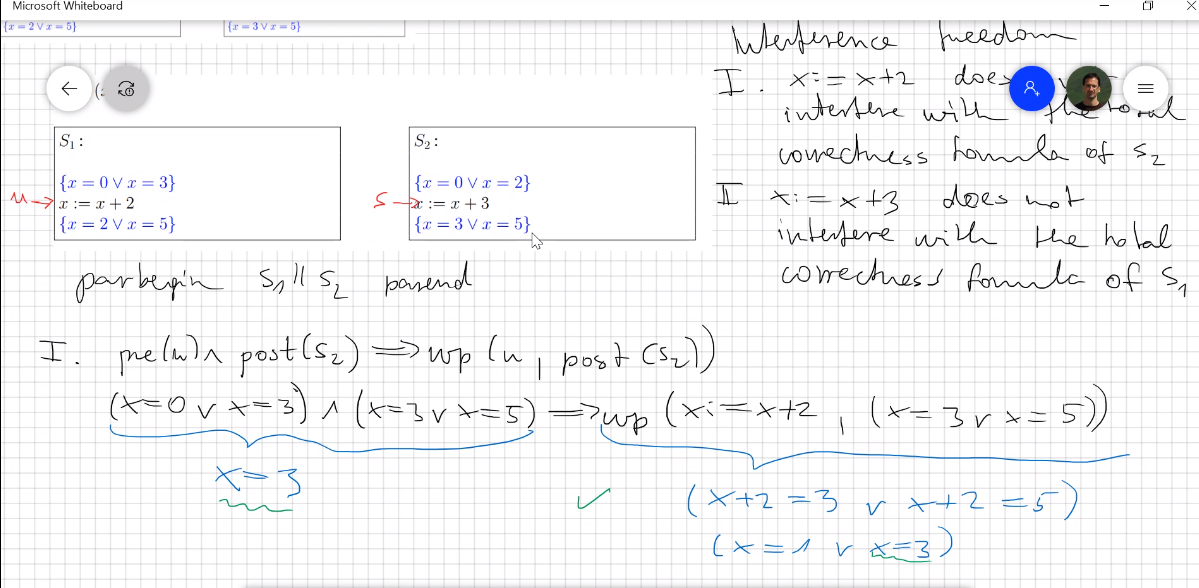
**缺失一页**

****

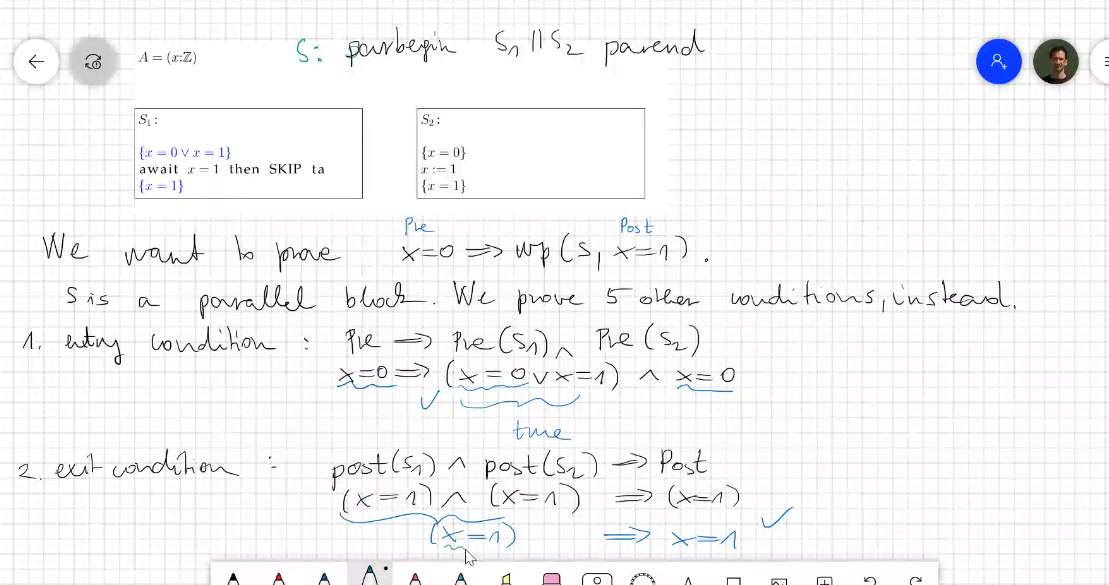
**Critical statement**

****

****

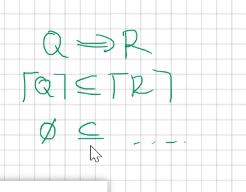
****

**12/9/20**

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**Implie ： 所以左边是false 那么整体一定是true**

****