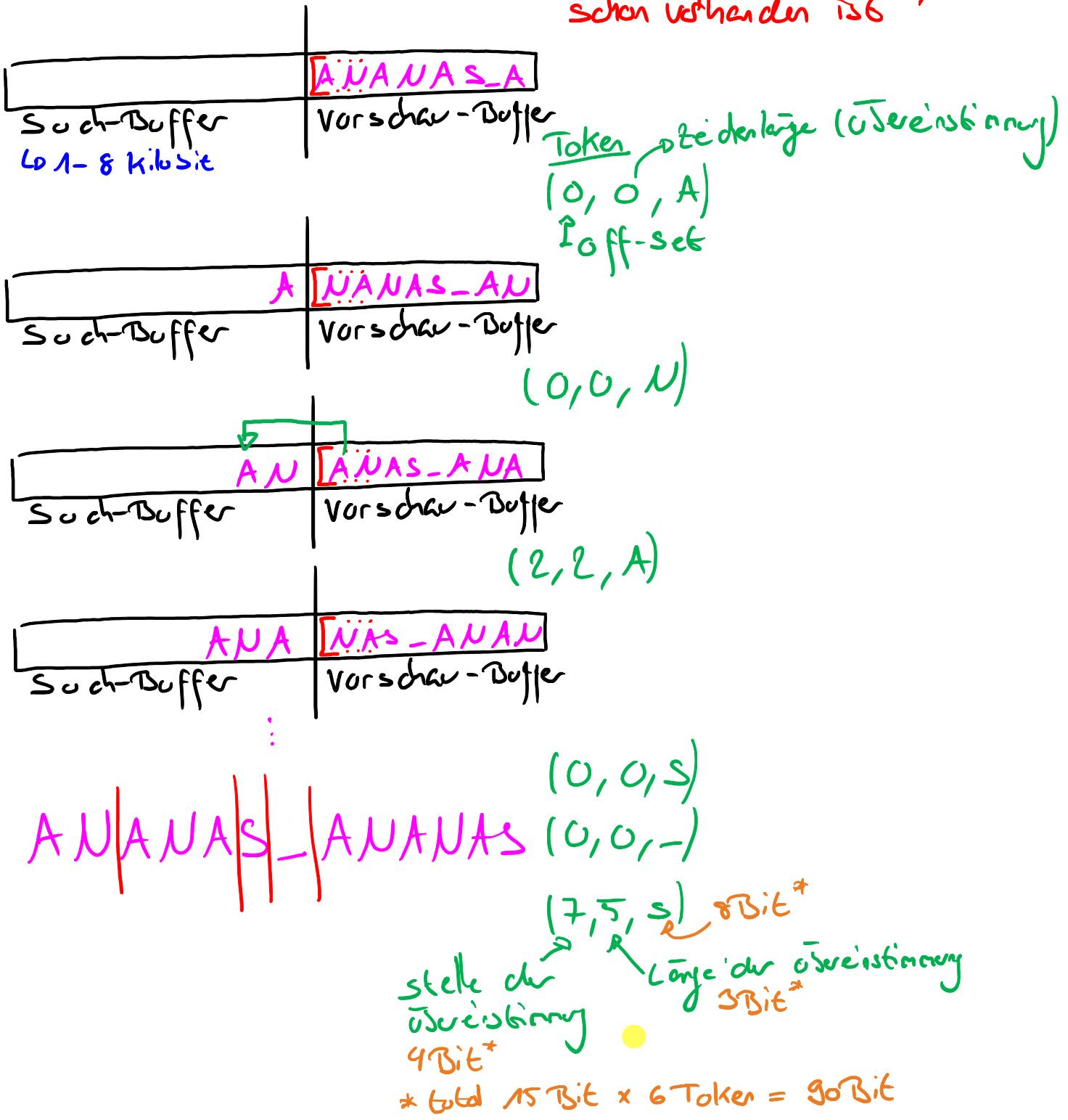


# Lempel-Ziv-Verfahren

LZ-77

ANANAS - ANANAS = 104 Bit

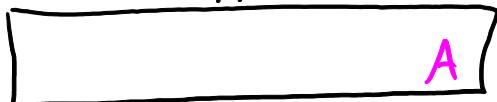
Überprüft ob das Symbol schon vorhanden ist



$$R = \frac{\text{out-Bit}}{\text{in-Bit}} - \frac{90}{104} = 0.88$$

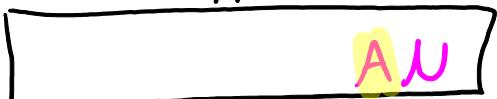
## Decodieren

Suchbuffer



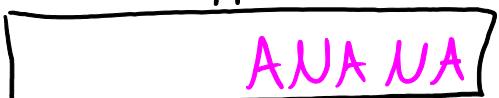
(0,0,A)

Suchbuffer



(0,0,N)

Suchbuffer



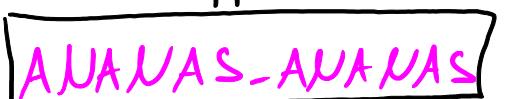
(2,2,A)

Suchbuffer



(0,0,S)

Suchbuffer



(7,5,S)

L 8-78

ANANAS-ANANAS

Wörterbuch		Token	Empfänger		Output
Index	Einträge		Index	Eintrag	
0	" "	(0, A)	0 → 1	" "	A
1	A	(0, N)	0 → 2	A	N
2	N	(1, N)	1 → 3	N	AN
3	AN	(1, S)	1 → 4	AN	AN
4	AS	(1, -)	2 → 5	AS	AS
5	-	(3, N)	2 → 6	-	-
6	ANA	(3, A)	3 → 7	ANA	ANA
7	NA	(0, S)	3 → 8	NA	NA
8	S			S	S

L2-W

ANANAS - ANANAS

Wörterbuch → ASCII-Code Seriös initialisiert

Empfänger

Index	Eingang	Token	Index	Eingang	Output
65	A		65	A	
78	N		78	N	
83	S		83	S	
255	?		255	?	
256	AN	(65)	256	A <span style="border: 1px solid black; padding: 2px;">N</span>	A
257	NA	(78)	257	N <span style="border: 1px solid black; padding: 2px;">A</span>	N
258	ANA	(256)	258	AN <span style="border: 1px solid black; padding: 2px;">S</span>	AN
259	AS	(65)	259	A <span style="border: 1px solid black; padding: 2px;">S</span>	A
260	S-	(83)	260	S <span style="border: 1px solid black; padding: 2px;">-</span>	S
261	-A	(32)	261	- <span style="border: 1px solid black; padding: 2px;">A</span>	-
262	ANAN	(258)	262	ANAN <span style="border: 1px solid black; padding: 2px;">N</span>	ANA
263	NAS	(257)	263	NA <span style="border: 1px solid black; padding: 2px;">S</span>	NA

Vorteil: Token ist kürzer → nur Index in Wörterbuch











