

.1000111
 >>> 0,56521

a) ln Ulm um Ulm
und um Ulm
 herum
 ($\Sigma=23$)

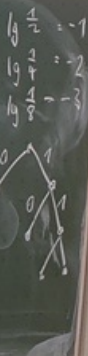
0,56 : 0,5 : $\frac{1}{2}$
 0,06 : 0,1001000

	i	h	p
I	I	1	0,04348
n	II	2	0,08696
U	III	3	
l	III	3	
m	IIII	6	
u	IIII	4	
d	I	1	
h	I	1	
e	I	1	
r	I	1	

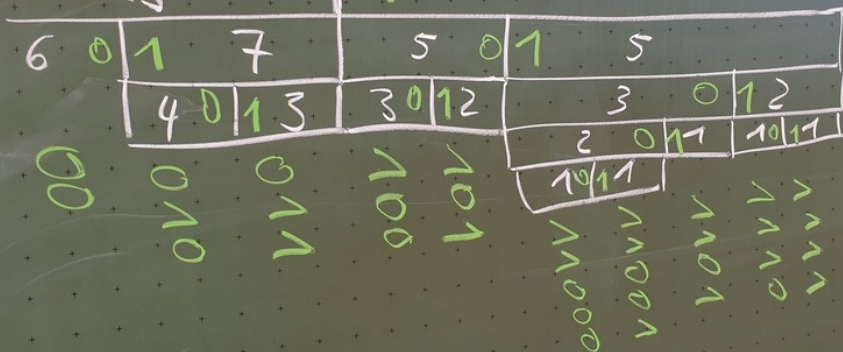
3.1 a) Sachfragen nach Wahrsch.

$a_1 = m$ $p_1 = 0,26$ $\pi_1 = 0$
 $a_2 = u$ $p_2 = 0,17$ $\pi_2 = 0,26$
 $a_3 = U$ $p_3 = 0,13$ $\pi_3 = \pi_2 + p_2 = 0,43$
 $a_4 = l$ $p_4 = 0,13$ $\pi_4 = \pi_3 + p_3 = 0,56$
 $a_5 = n$ $p_5 = 0,08$ $0,69$
 $a_6 = z$ $p_6 = 0,04$ $0,73$
 $a_7 = d$ $p_7 = 0,04$ $0,87$
 $a_8 = h$ $0,91$
 $a_9 = e$ $0,95$
 $a_{10} = r$ $0,04$

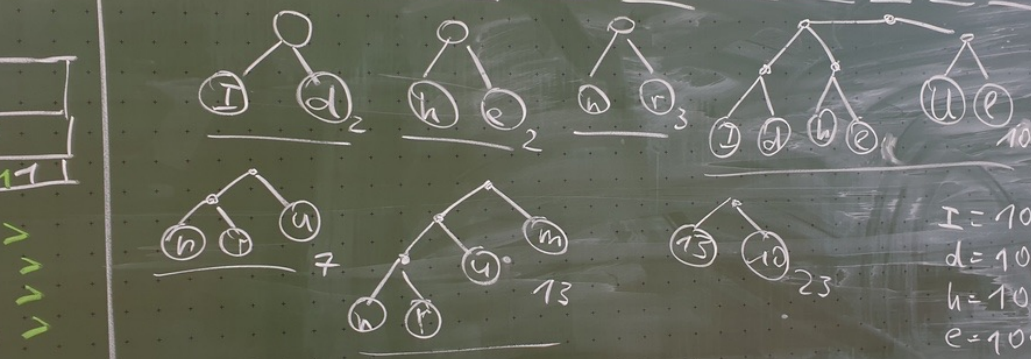
$0,00|0000012$
 $0,01|000013$
 $0,01|01114$
 $0,01|10114$
 \vdots



3.2) 6 4 3 3 2 1 1 1 1 1
 m u U l n I d h e r
 13 0 1 10



3.3) \textcircled{I}_1 \textcircled{e}_2 \textcircled{U}_3 \textcircled{l}_3 \textcircled{m}_6 \textcircled{u}_4 \textcircled{d}_1 \textcircled{h}_1 \textcircled{e}_1 \textcircled{r}_1



$I = 1000$
 $d = 1001$
 $h = 1010$
 $e = 1011$

3.5

A	E	N	S
0	0,2	0,5 0,6	1

$0,2 + 0,2 \cdot 0,3 = 0,26$
 $0,2 + 0,5 \cdot 0,3 = 0,35$
 $0,2 + 0,6 \cdot 0,3 = 0,38$

A	G	N	S
0,2	0,26	0,35 0,38	0,5

$0,2 + 0,2 \cdot 0,06 = 0,212$
 $0,2 + 0,5 \cdot 0,06 = 0,23$

A	G	N	S
0,2	0,212	0,23 0,236	0,26

A	G	N	S
0,23	0,23 12	0,23 30	0,23 36

$0,2336 \leq x < 0,236$

$\frac{1}{2} \neq 0,5$ ne	0	$+ \frac{1}{64} = 0,234375$ 1 $x \approx 0,234375$ $x^{(2)}$
$\frac{1}{4} \neq 0,25$ ne	0	
$\frac{1}{8} \neq 0,125$ ja	1	
$\frac{1}{8} + \frac{1}{16} = 0,1875$	1	
$+ \frac{1}{32} = 0,21875$	1	

<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 10%;">6</td><td style="width: 10%;">4</td><td style="width: 10%;">3</td><td style="width: 10%;">3</td><td style="width: 10%;">2</td><td style="width: 10%;">1</td><td style="width: 10%;">1</td><td style="width: 10%;">1</td><td style="width: 10%;">1</td><td style="width: 10%;">1</td></tr> <tr><td>m</td><td>u</td><td>u</td><td>l</td><td>n</td><td>I</td><td>d</td><td>h</td><td>e</td><td>r</td></tr> <tr><td>13</td><td>0</td><td>1</td><td></td><td>10</td><td></td><td></td><td></td><td></td><td></td></tr> <tr style="border-top: 1px solid black;"><td>6</td><td>0</td><td>7</td><td></td><td>5</td><td>0</td><td>1</td><td></td><td>5</td><td></td></tr> </table>	6	4	3	3	2	1	1	1	1	1	m	u	u	l	n	I	d	h	e	r	13	0	1		10						6	0	7		5	0	1		5		<p>3.3</p> <div style="display: flex; justify-content: space-around; align-items: center;"> ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;"> </div>
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