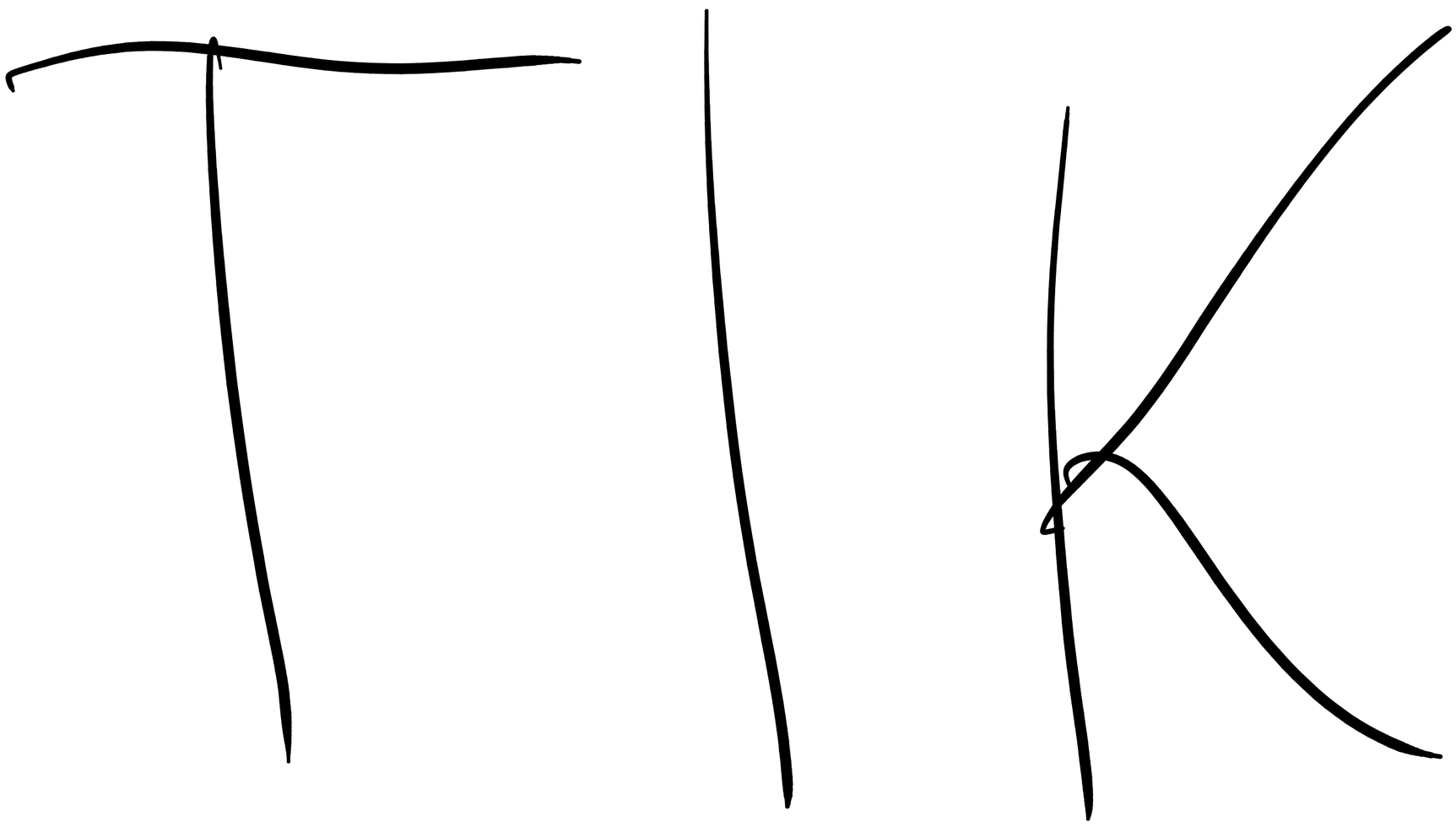


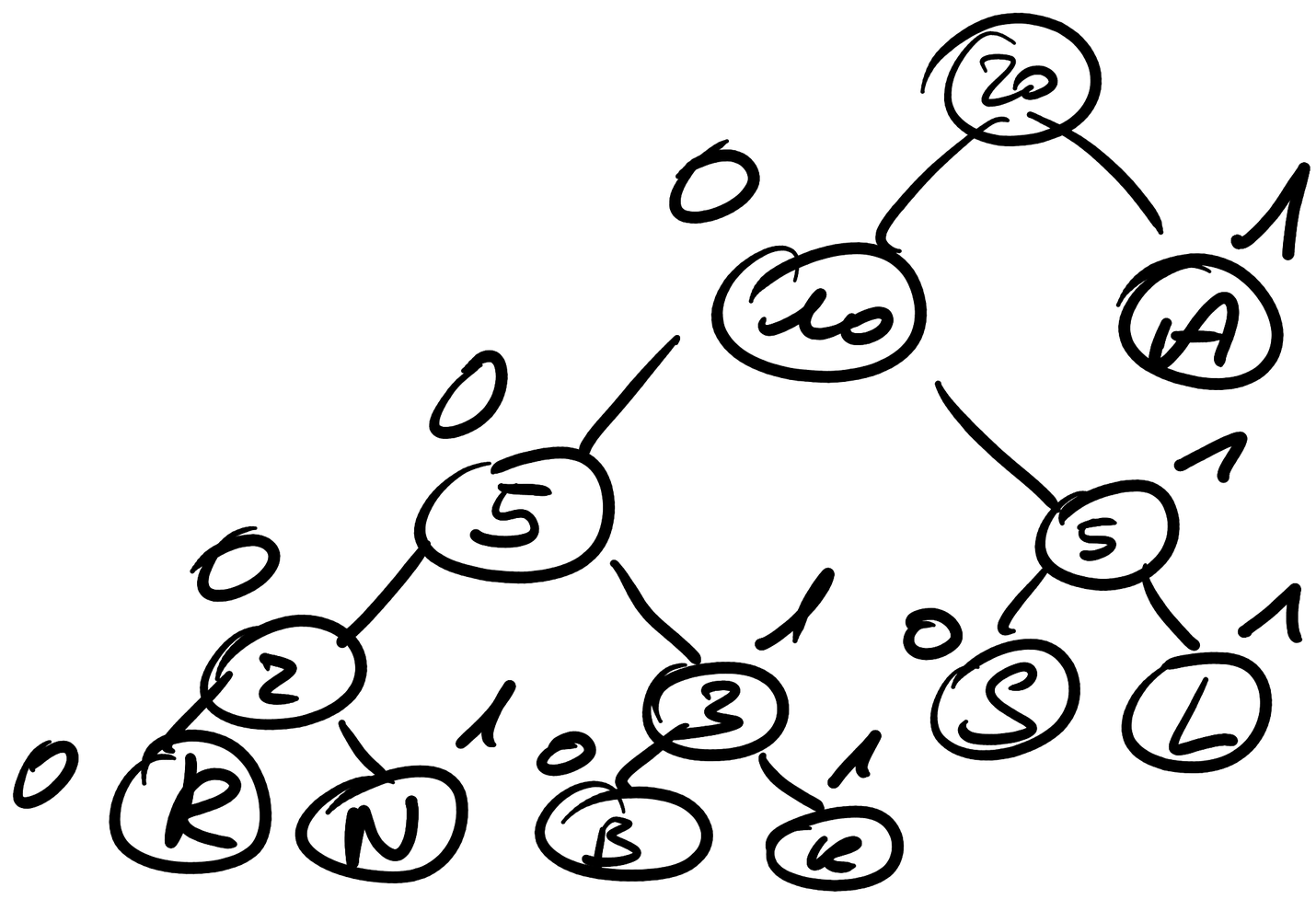
Kodowanie Shannona i Huffmana

ALASKAALABAMAARKANSAS

A - 10,
L - 2,
S - 3,
K - 2,
B - 1,
R - 1
N - 1

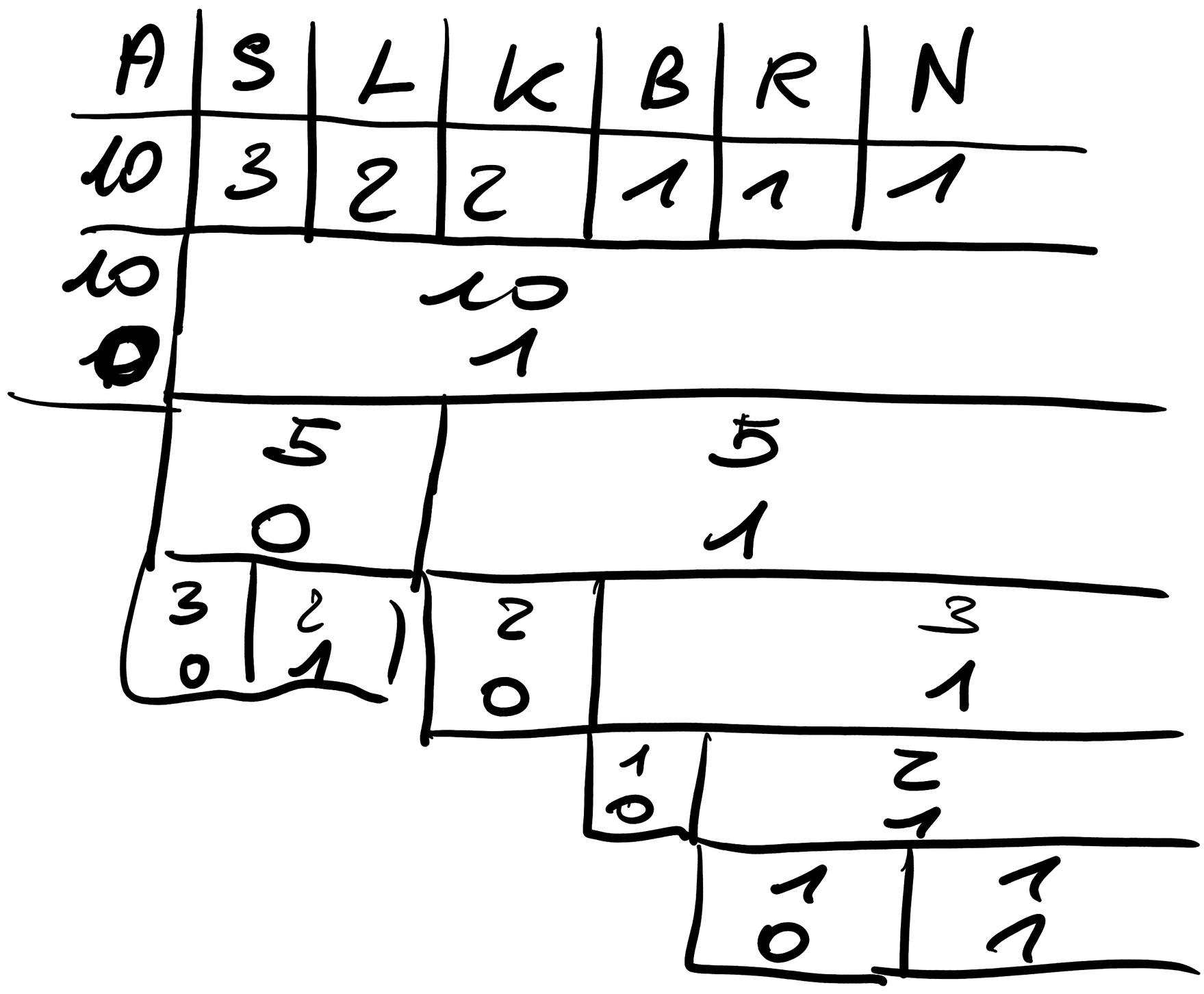
Huffmana

A - 1
S - 010
L - 011
K - 0011
B - 0010
N - 0001
R - 0000



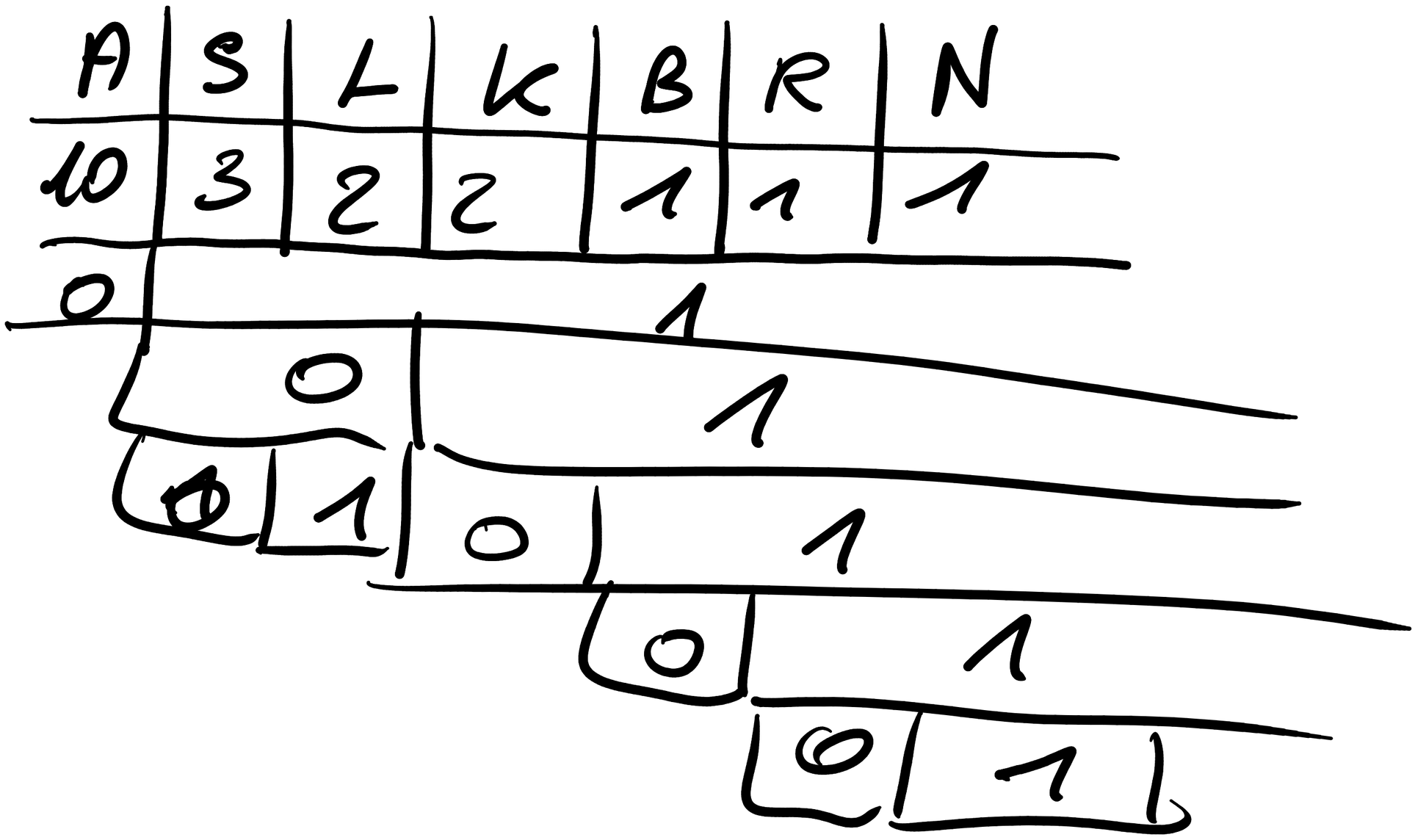
Shannona — Entriopia

A - 10,
L - 2,
S - 3,
K - 2,
B - 1,
R - 1,
N - 1,

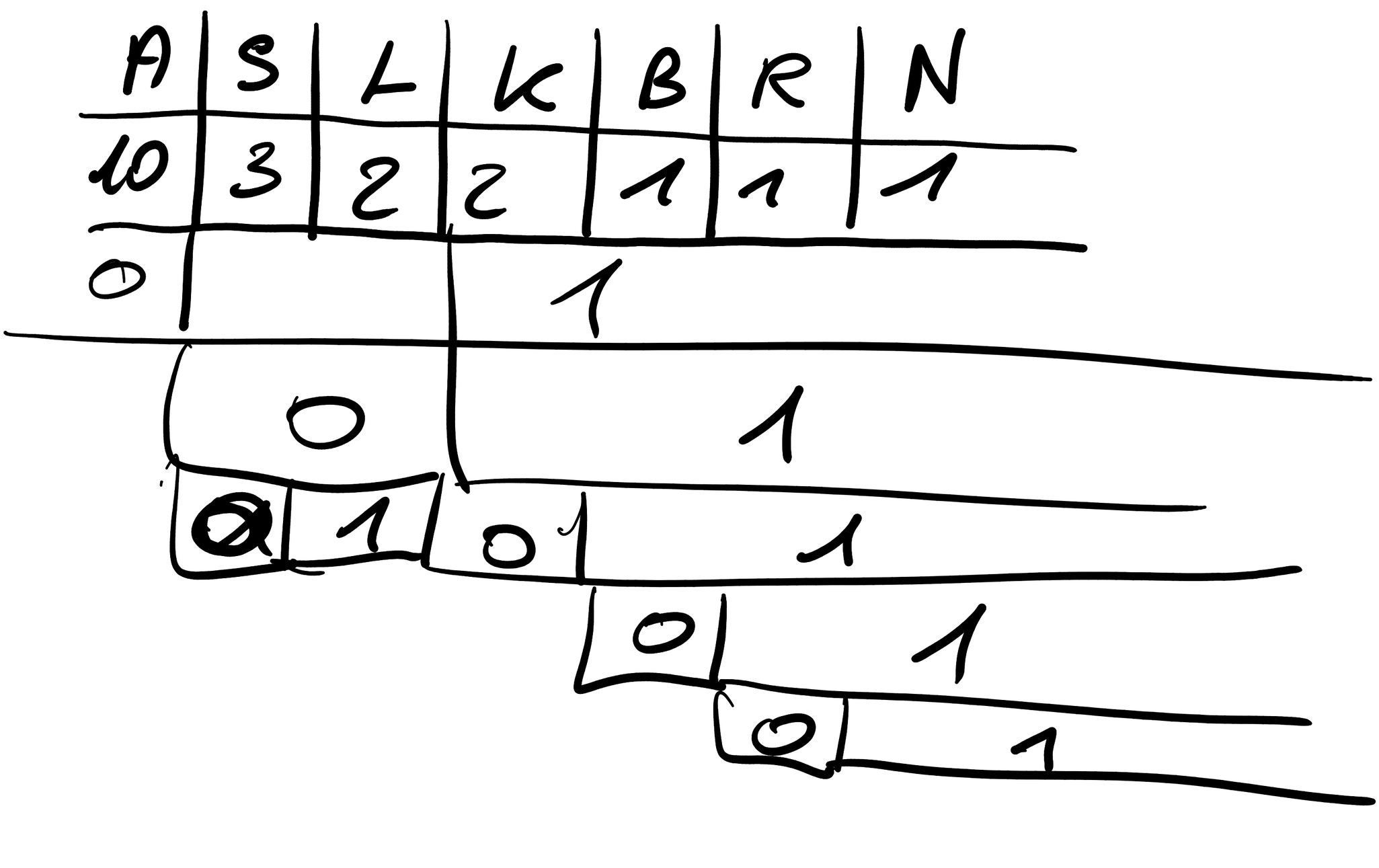


A - 0
S - 100
L - 101
K - 110
B - 1110
R - 11110
N - 11111

A	S	L	K	B	R	N
10	3	2	2	1	1	1



A	S	L	K	B	R	N
10	3	2	2	1	1	1



$$-\sum_{i=1}^{n} p_i \log_2 p_i$$

A - 10,	0,5	$0_{10} = 0,0000_2$	0
S - 3,	0,15	$0,5_{10} = 0,1000_2$	10
L - 2,	0,1	$0,65_{10} = 0,10100_2$	101
K - 2,	0,1	$0,75 = 0,11000$	110
P - 1,	0,05		
R - 1,	0,05	$0,80 = 0,11001$	11001
N - 1,	0,05	$0,85 = 0,101101$	101101

1,6
1,2
0,4
0,8

0
0,7
0,4
0,8
6

1,3
3
6

W zad. 2. 4 bit zamieniamy na

precious.

$g(x) = x^3+x^2+1 = 1101$

	d(x)		$\cdot x^3$	r(x)	d(x) + r(x)
1	000	0	0	000	000 000
2	001	1	x^3	101	001101
3	010	x	x^4	111	010111
4	011	x+1	x^4+x^3	010	011010
5	100	x^2	x^5	011	100011
6	101	x^2+1	x^5+x^3	110	101110
7	110	x^2+x	x^5+x^4	100	110100
8	111	x^2+x+1	$x^5+x^4+x^3$	001	111001

001000