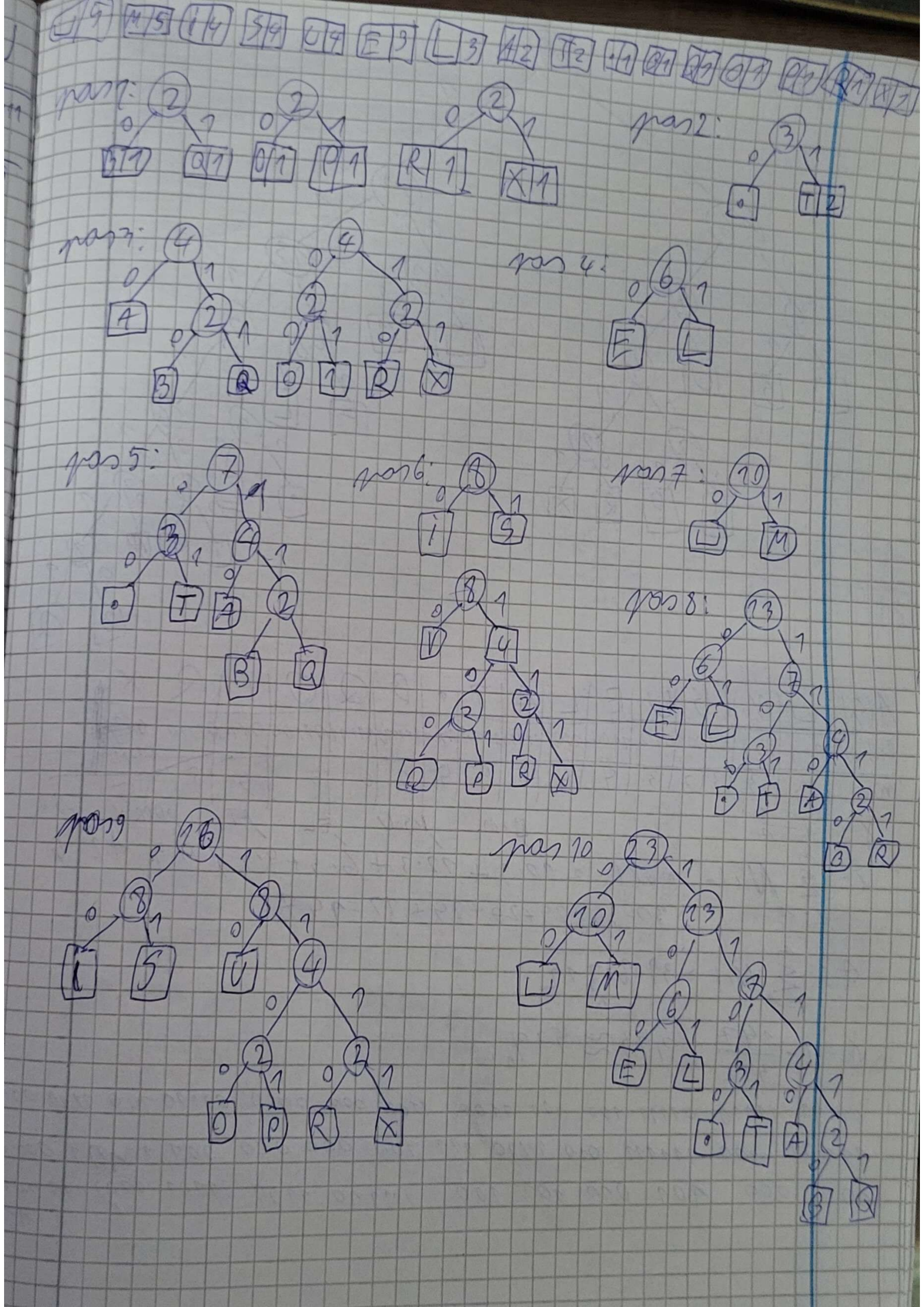
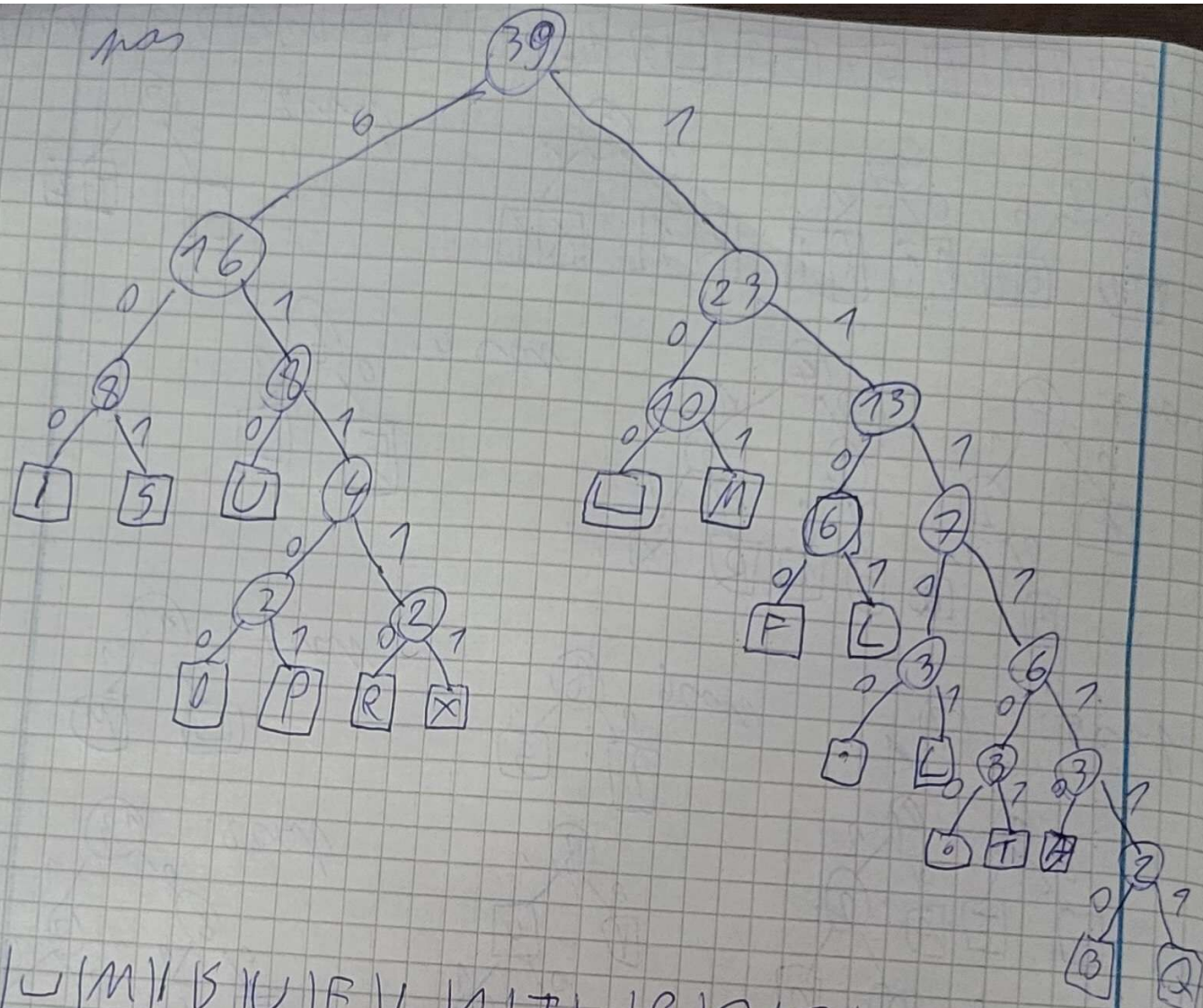




A(S)	␣	M	I	S	U	E	L	A	T	.	B	Q	O	P	R	X
kod wył	100	101	000	001	010	1100	1101	1110	1111	1000	10011	10010	01100	01101	01111	01110
nr	3	3	3	3	3	4	4	5	5	5	6	6	5	5	5	5

$\gamma = 1 - \frac{\ell}{\theta}$

M·M, U·S, EL, AT, OPRX, BQ

$\ell = \sum_{i=1}^{n} N(i) \cdot \text{wdł}(i) = 10,3 + 12 \cdot 3 + 6 \cdot 4 + 4 \cdot 5 + 5 \cdot 5 + 2 \cdot 6$

$= 30 + 36 + 24 + 20 + 25 + 12 = 147$

$\theta = \sum_{i=1}^{n} M(i) = 39 \cdot 8 = 312$

$\gamma = 1 - \frac{147}{312} = 0,53 \approx 53\%$

01101 11110 01111 100 101 1100 1101 000 0010 01110 100 1100 001
11101 100 111111 010 10010 111 100 000 010 001 10011 000 001
001 000 101 010 101 100 111110 1100 1101 1101 010 101 111

PAX MELIOREST QUAM IUSTISSIMUM BELLUM

A°	␣	M	I	S	U	E	L	A	T	·	B	Q	O	P	R	X
$N(s)$	5	5	4	4	4	3	3	2	2	1	1	1	1	1	1	1

$\Sigma N(s) = 39$

$A^{\circ L}$	␣	M	I	S
	5	5	4	4

L R

$A^{\circ R}$	U	E	L	A	T	·	B	Q	O	P	R	X
	4	3	3	2	2	1	1	1	1	1	1	1

$A^{\circ LL}$	␣	M
	5	5

L R

$A^{\circ LR}$	I	S
	4	4

L R

$A^{\circ LLL}$	␣
	5

$A^{\circ LLR}$	M
	5

$A^{\circ LRL}$	I
	4

$A^{\circ LRR}$	S
	4

$A^{\circ RL}$	U	F	L	A
	4	3	3	2

L R

$A^{\circ RLL}$	U	E
	4	3

L R

$A^{\circ RLLL}$	U
	4

$A^{\circ RLLR}$	E
	3

$A^{\circ RLRL}$	L
	3

$A^{\circ RLRR}$	A
	2

$A^{\circ RR}$	T	·	B	Q	O	P	R	X
	2	1	1	1	1	1	1	1

L R

$A^{\circ RRL}$	T	I	B	Q
	2	1	1	1

$A^{\circ RRLL}$	T	·
	2	1

$A^{\circ RRLR}$	B	R
	1	1

L R

$A^{\circ RRLLL}$	T
	2

$A^{\circ RRLLR}$	·
	1

$A^{\circ RRLRL}$	B
	2

$A^{\circ RRLRR}$	Q
	1

$A^{\circ RRR}$	O	P	R	X
	1	1	1	1

L R

$A^{\circ RRRL}$	O	P
	1	1

L R

$A^{\circ RRRR}$	R	X
	1	1

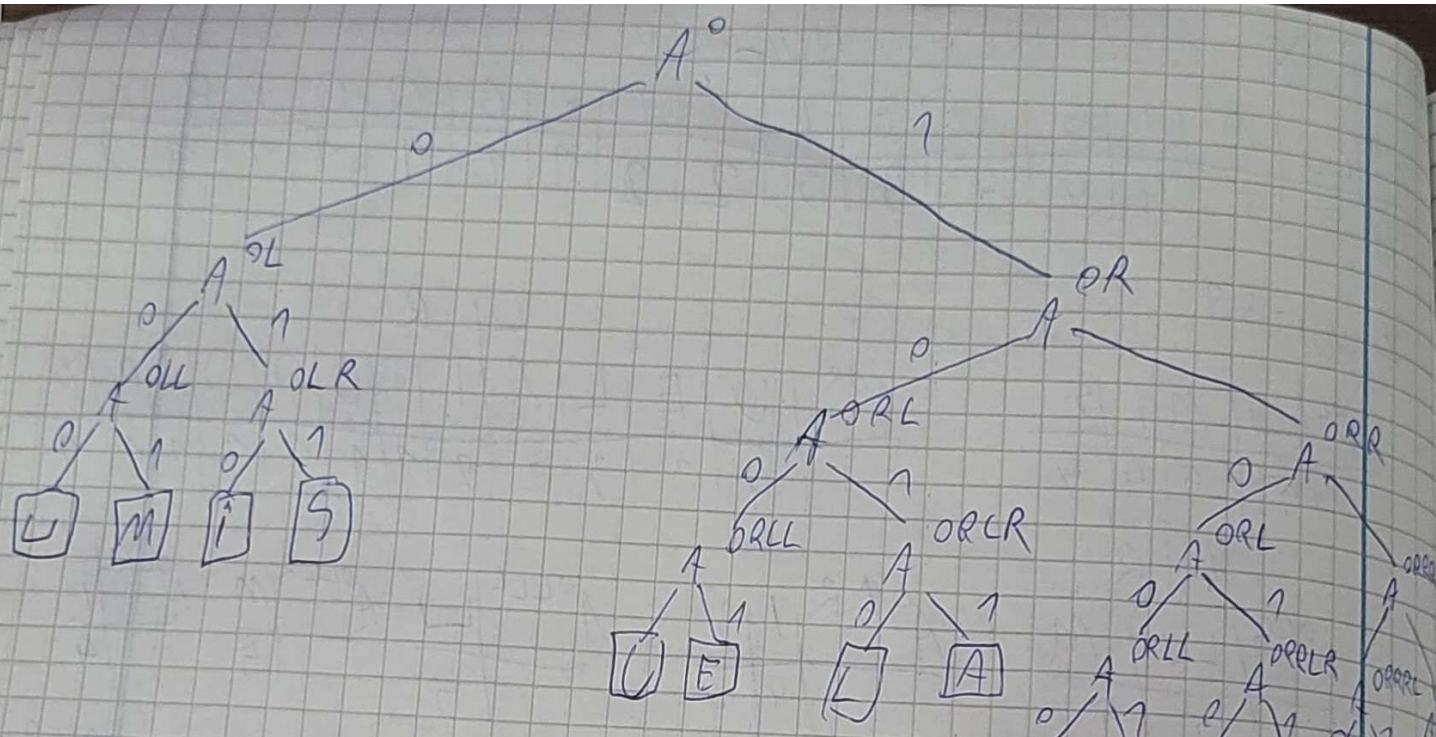
L R

$A^{\circ RRRLL}$	P
	1

$A^{\circ RRRLR}$	P
	1

$A^{\circ RRRRL}$	R
	1

$A^{\circ RRRRR}$	X
	1



A	U	M	I	S	U	E	L	A	T	O	P	R	X
cod	000	001	010	011	1000	1001	1010	1011	11000	11001	11010	11011	11100	11101	11110	11111
w	3	3	3	3	4	4	4	4	5	5	5	5	5	5	5	5

$\gamma \geq 1 - \frac{L}{\theta}$

$L = \sum_{i=1}^{m} N_i l_i$ Nr biti $= 5 \cdot 3 + 5 \cdot 3 + 4 \cdot 3 + 4 \cdot 3 + 4 \cdot 4 + 3 \cdot 4 + 3 \cdot 4 + 2 \cdot 4 + 2 \cdot 5 + 1 \cdot 5$

$= 30 + 48 + 16 + 12 + 35 = 147$

$\theta = \sum_{i=1}^{m} N_i = 312$

$\gamma = 1 - \frac{147}{312} = 0,53 \approx 53\%$

1101 1011 11111 000 001 1001 1010 010 11100 11110 000 1001
11000 000 11011 1000 1011 001 000 010 1000 011 11000 010
011 010 001 1000 001 000 11010 1001 1010 1010 1000 001
11001