

Algorithms Compression assignment.

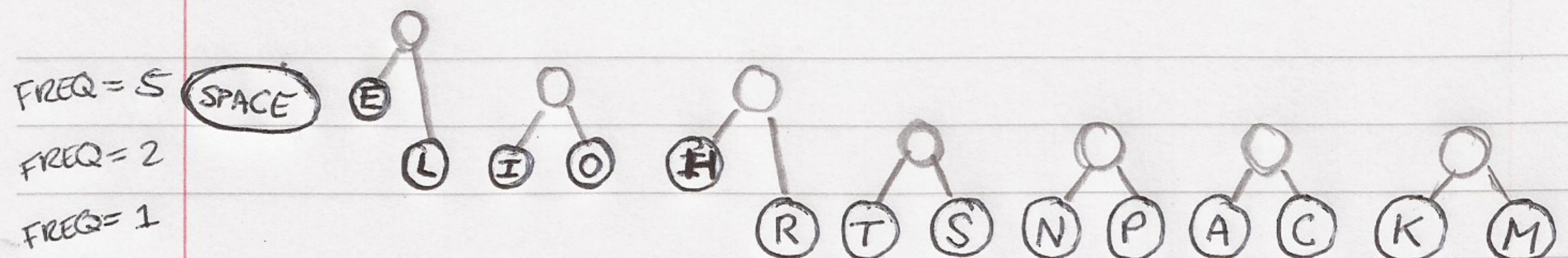
LUKE CONNELLY & THOMAS O'GARA

HUFFMAN TREE FOR THE PHRASE:
"THERE IS NO PLACE LIKE HOME"

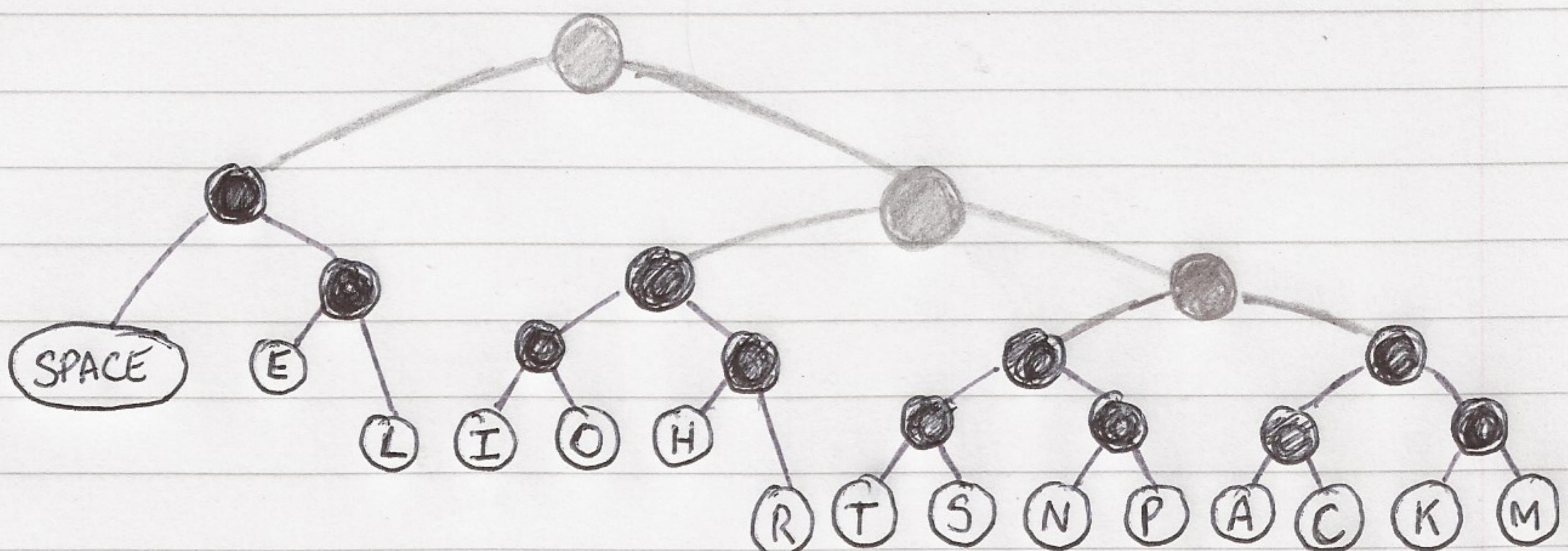
STEP ONE: FREQUENCY TABLE.

	5	S	1
E	5	N	1
L	2	P	1
H	2	A	1
O	2	C	1
I	2	K	1
R	1	M	1
T	1		

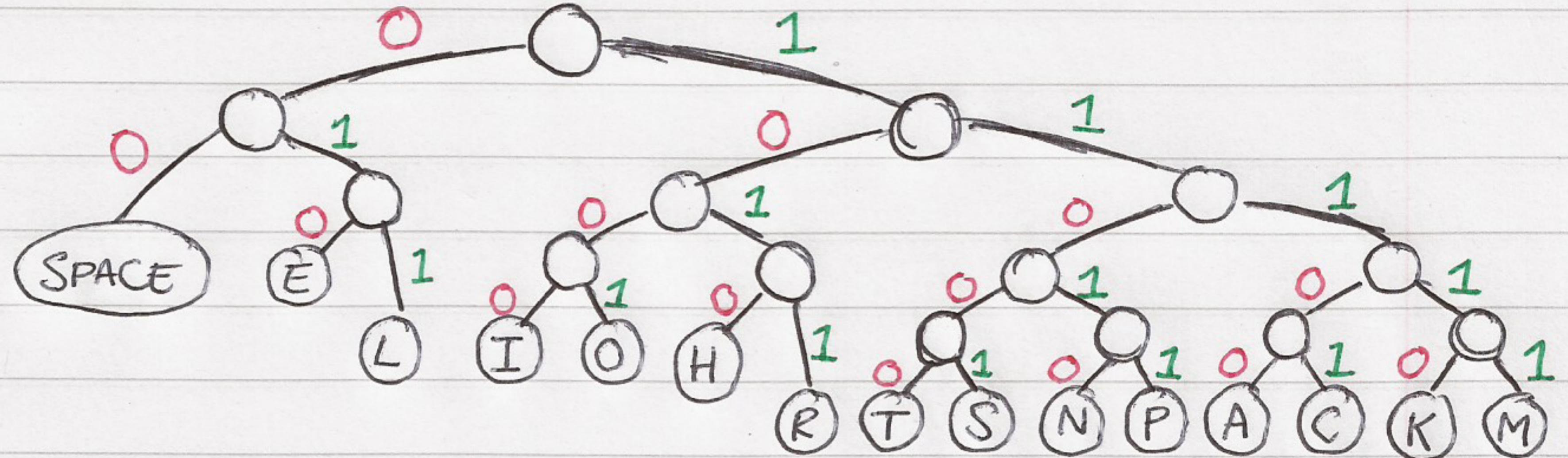
STEP TWO: BUILDING FROM THE BOTTOM.



STEP THREE: MERGE.



STEP THREE : ADD BINARY VALUES.



STEP FOUR : USE ENCODED CHARACTERS

SPACE	00	S	11001
E	010	N	11010
L	011	P	11011
H	1010	A	11100
O	1001	C	11101
I	1000	K	11110
R	1011	M	11111
T	11000		

Our encoded message can now be represented as :

T	H	E	R	E	I
11000	1010	010	1011	010	00

S	N	O		P	L	A
11001	00	11010	1001	00	11011	011

C	E	L	I	K	E	H
11101	010	00	011	1000	11110	010

O	M	E
1001	11111	010