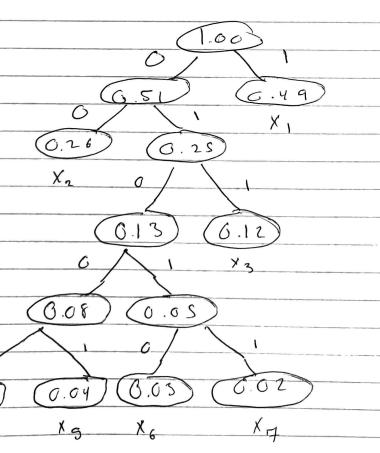
	Codewood	χ	Nichebility
	1	Χ,	0.49 - 649 - 6.49
-	00	X1	0.26 - 0.26 - 0.26
_	011	X 3	0.12 -0.12 - 0.12
	01000	Хq	0.04 0.05 0.08
_	01001	Xs	0.04 / 0.04 / 0.05
_ (01010	Х.	0.04 0.04 0.05
	01011	X,	0.02
		,	



0

0.04

2) Our encoding is

Codeword	X	Probability
\	×	6.49
00	X 2	C 26
011	X 3	0.12
01000	λų	0.04
01001	Xs	0,04
01010	Χø	0.03
01011	X7	0.02
w.	•	

Expected code length for this encoding is

$$(1)(049) + (2)(0.26) + (3)(6.12) + (8)(6.64)$$

= 2.62

Expedde code length for this encoding: 2.02

3) 6.49 - 6.49 6.26 - 6.260.26 6.12 7, 6.25 02 C-12 X3 0.09 6.04 00 0.04 012 Xs 0.031 X 6. 0.02 010 X7 1.60 0.49 0.25 6.26 Χz Χ, 0.04 0.09 0.12 Xy X3 6.04 X Xs