

Tutorial –III: Kraft-McMillan Inequality

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Problem No: 1

Consider the four codes listed below:

Symbol	Code I	Code II	Code III	Code IV
s_0	0	0	0	00
s_1	10	01	01	01
s_2	110	001	011	10
s_3	1110	0010	110	110
s_4	1111	0011	111	111

Problem No: 1 Cont...

Answer the following:

- Two of these four codes are prefix codes. Identify them, and construct their individual decision trees.
- Apply the Kraft-McMillan Inequality to codes I, II, III, and IV. Discuss your results in light of those obtained in part (a).