Exercise 1.5

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k = 2
F_2 = EK
c(E \to K) = 1 \ge 0.8, so print E \to K
c(K \to E) = 4/5 = 0.8, so print K \to E
H_1 = \{K, E\}
GenerateRules stops early since k = 2 = 1 + 1
F_2 = EO
c(E \to O) = 3/4 < 0.8
c(O \to E) = 1 \ge 0.8, so print O \to E
H_1 = \{E\}
GenerateRules stops early since k = 2 = 1 + 1
F_2 = KM
c(K \to M) = 3/5 < 0.8
c(M \to K) = 1 \ge 0.8, so print M \to K
H_1 = \{K\}
GenerateRules stops early since k = 2 = 1 + 1
F_2 = KO
c(K \to O) = 3/5 < 0.8
c(O \to K) = 1 \ge 0.8, so print O \to K
GenerateRules stops early since k = 2 = 1 + 1
F_2 = KY
c(K \to Y) = 3/5 < 0.8
c(Y \to K) = 1 \ge 0.8, so print Y \to K
H_1 = \{K\}
GenerateRules stops early since k = 2 = 1 + 1
k = 3
F_3 = EOK
c(EK \to O) = 3/4 < 0.8
c(OK \to E) = 1 \ge 0.8, so print OK \to E
c(EO \to K) = 1 \ge 0.8, so print EO \to K
H_1 = \{E, K\}
k = 3 > 2 = m + 1, so GenerateRules continues
H_2 = \{EK\}
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Printed rules: $E \to K, K \to E, O \to E, M \to K, O \to K, Y \to K, OK \to E, EO \to K, O \to EK$

Recursive execution of GenerateRules stops early since k = 3 = 2 + 1

 $c(O \to EK) = 1 \ge 0.8$, so print $O \to EK$