Lets consider (age) { youth, middle-age}, { youth, serion}, { serion, midd gini age E (youth, middle-age) (D) = (14) (sini(D)) + 5 Cini (Dz) $=\frac{9}{14}\left(1-\left(\frac{2}{5}\right)^{2}-\left(\frac{3}{5}\right)^{2}\right)+\frac{5}{14}\left(1-\left(\frac{3}{5}\right)^{2}-\left(\frac{3}{5}\right)^{2}\right)$ = '4571 = giniagre { Senion} (D) giniage $\in \{y \text{ outh, senion}\}(D) = \frac{10}{14} \left(1 - \left(\frac{5}{10}\right) - \left(\frac{5}{10}\right)^{\gamma}\right)$ $+\frac{4}{14}\left(1-\left(\frac{4}{3}\right)^{2}-\left(\frac{6}{3}\right)^{2}\right)$ = '35 71 = giniage ({middle_aged} ()) gini aget {middle_age, senion} (D) = = = (1-(3)-(3)) - = (1-(3)-(3))

= "3)36 z giniage = (youth)(D)

$$\widehat{gini} \text{ Studen+}(D) = \frac{7}{14} \left(1 - \left(\frac{6}{7}\right)^{2} - \left(\frac{1}{7}\right)^{2}\right) + \frac{7}{14} \left(1 - \left(\frac{3}{7}\right)^{2}\right) - \left(\frac{1}{7}\right)^{2}$$

Simlanly, Set

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