$$H = \theta_1 P_1 + \theta_2 P_2 + \theta_3 P_3 + \cdots + \theta_r P_r$$

$$\alpha = \alpha_1 = 3 \quad , \ \alpha_2 = 0 \ , \quad \alpha_3 = 2 \quad , \ \ldots \ , \ \alpha_r = 1$$

$$S = s_1 = 1 \ , \ s_2 = 1 \ , \ s_3 = 1 \ , \quad s_4 = 3 \ , \ s_5 = 3 \quad , \ \ldots \ , \ s_m = r$$