

$m = 1: 1 \rightarrow 2, d_1 = 4$

$m = 2: 1 \rightarrow 3, d_2 = 4$

$m = 3: 3 \rightarrow 2, d_3 = 4$

$m = 4: 1 \rightarrow 7, d_4 = 4$

