

2) R, Y, G  
 1, 2, 3  
 1, 2, 3

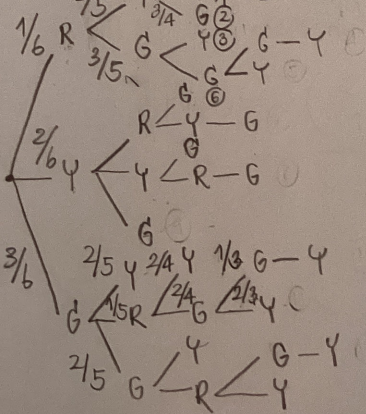
1)  $P_{GG} = \frac{\binom{3}{2}}{\binom{5}{2}} = \frac{3!}{2!1!} = \frac{3 \times 2 \times 1}{5 \times 4 \times 3 \times 2} = \frac{3}{10}$

กรณี 2

1)  $P_R = \frac{\binom{1}{1}}{\binom{5}{2}} = \frac{1}{5 \times 4 \times 3!} = \frac{1}{10}$

2.2) PMF  $P_Y(y)$  เมื่อ  $Y$  คือ RV ของจำนวนครั้งที่ใส่ใบที่ถูกต้องในกล่อง

แบบใส่ใบที่ถูกต้อง 1 ใบ, 2 ใบ, 3 ใบ, 4 ใบ, 5 ใบ, 6 ใบ



①  $P[RYYG] = \frac{1}{6} \times \frac{2}{5} \times \frac{1}{4} \times 1 = \frac{2}{120}$

②  $P[RYYG] = \frac{1}{6} \times \frac{2}{5} \times \frac{3}{4} \times 1 = \frac{6}{120}$

③  $P[RGYY] = \frac{1}{6} \times \frac{3}{5} \times \frac{2}{4} \times 1 = \frac{6}{120}$

④  $P[RGGGY] = \frac{1}{6} \times \frac{3}{5} \times \frac{2}{4} \times \frac{1}{3} \times 1 = \frac{6}{360}$

⑤  $P[RGGGY] = \frac{1}{6} \times \frac{3}{5} \times \frac{2}{4} \times \frac{2}{3} \times 1 = \frac{12}{360}$

⑥  $P[YRG] = \frac{3}{6} \times \frac{1}{5} \times \frac{3}{4} = \frac{9}{120}$

⑦  $P[YRYG] = \frac{3}{6} \times \frac{1}{5} \times \frac{1}{4} = \frac{3}{120}$

⑧  $P[YYY] = \frac{3}{6} \times \frac{1}{5} \times \frac{3}{4} = \frac{9}{120}$

⑨  $P[YYYG] = \frac{3}{6} \times \frac{1}{5} \times \frac{1}{4} \times 1 = \frac{3}{120}$

⑩  $P[YG] = \frac{3}{6} \times \frac{3}{4} = \frac{9}{8}$

$P[GGY] = \frac{3}{6} \times \frac{2}{5} = \frac{6}{30}$

$P[GGRY] = \frac{3}{6} \times \frac{1}{5} \times \frac{2}{4} = \frac{6}{120}$

$P[GRRGGY] = \frac{3}{6} \times \frac{1}{5} \times \frac{2}{4} \times \frac{1}{3} \times 1 = \frac{6}{360}$

$P[GRRGGY] = \frac{3}{6} \times \frac{1}{5} \times \frac{2}{4} \times \frac{2}{3} = \frac{12}{360}$

$P[GRRGGY] = \frac{3}{6} \times \frac{1}{5} \times \frac{2}{4} = \frac{12}{120}$