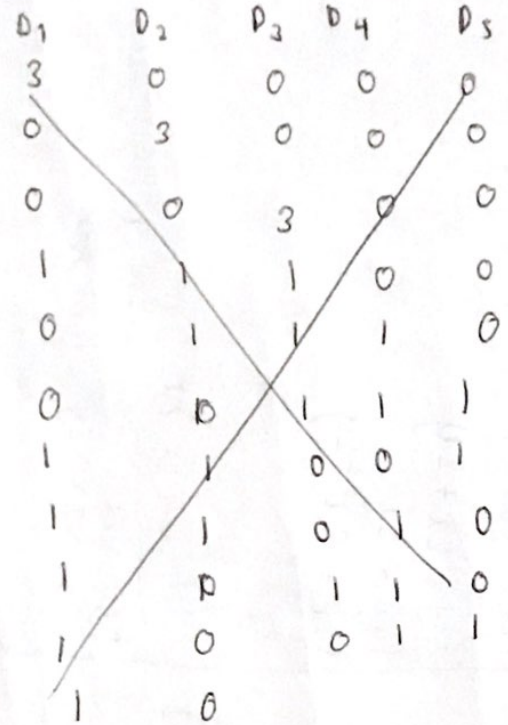
Problem 4 (1)



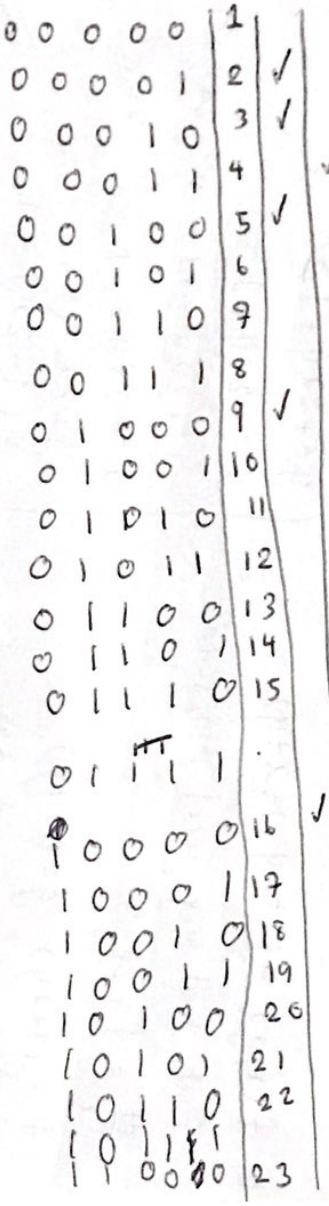
$$\binom{5+4}{4} =$$

Total outcome = $6^n = 6^5$

1+1=2
2+0=2

1+1+1

3 → 3



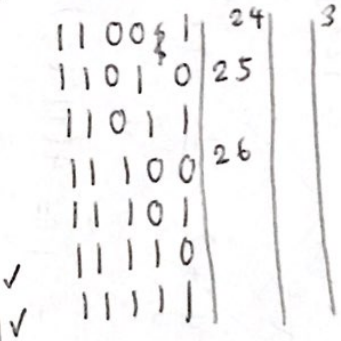
1+1+1, 1+1, 1
2, 2+1, 1+2
3

$$99 = 2 - 48x - 14y$$

$$48x - 14y = 2$$

$$48 + 28 - 16$$

$$0 = 0 + 2 - 28 - 48 - 14y - 48x$$



$$= 5 + 26 + 25$$

$$= 56$$

✓ Prob = $\frac{56}{6^5}$

Problem 4(2)

$$\frac{1}{6} \cdot (1+2+3+4+5+6) \cdot n$$

$$= \frac{21n}{6}$$

$$= \frac{7}{2}n$$

$$= 3.5n$$

$$= 3.5(5)$$

$$= 17.5$$