

1)

5 founders 2 CEO & CTO

$$P = \frac{1}{5C_2 \times 2!} = 0.05$$

2)

$$P = \frac{28C_4 \times 4C_4}{32C_8}$$

3)

for 1 trial

fav.

> 8 or odd

6x6

3 - (1,2), (2,1)

5 - (2,3), (3,2), (1,4), (4,1)

7 - (1,6), (6,1), (5,2), (2,5), (3,4), (4,3)

9 - (4,5), (6,3), (3,6), (5,4)

10 - (5,5), (6,4), (4,6)

11 - (6,5), (5,6)

12 - (6,6)

Total no. of fav. cases = 22

$$P_{\text{req.}} = \frac{22}{36} = \frac{11}{18}$$

by WLNN,

for 1000 sim. $P \sim \frac{11}{18}$