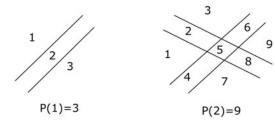
(2)

- a. Provide necessary recurrence relation and explanation (12)
- b. Find the closed form of P(n)



Q2. Suppose there are n people in Josephus's problem. The last two people decided not to kill each other. Find the serial numbers of these two people. Here  $n = ((StudentID \mod 1000) \times 2) + 771$  (6)