COV nhng - 3 Monday, November 23, 2000 - 10:40 AM

- 1. No. of ways to put all four employees in one office = 1.
- 2. No. of ways to put three employees into one office and the fourth employee into a different office = 4.
- 3.) No. of ways to put two employees into one office and two employees into a different office = 3. (A, B), (C, D)

 (B, D)

 (A, C), (B, D)
 - 4. No. of ways to put two employees in one office an each into each of the remaining offices = 6

 Total no. of possibilities = (1+4+3+6)=14.

Stirling numbers of second Kind.

- (1) No. of ways to put from employees into three indistinguishable office, so that no office is empty = S(4,3) = 6.
- (2) No. of ways to put four distinguishable employees into two indistinguishable offices, so that no office is empty = S(4,2) = 7.
- 3 No. of ways to put four different employees into one office, so that it is not empty = S(4, 1) = 1.

 Total no. of ways = S(4, 5) + S(4, 2) + S(4, 1) = 14.

Indistinguishable objects, Indis!	inguishable boxs
-1. 6 -2. 5, 1 -3. 4, 2 -4. 4, 1, 1	6. 3, 2, 1 7. 3, 1, 1, 1 8. 2, 2, 2 9. 2, 2, 1, 1 here are nine allowable trays to gidnows into 4 identical boxes.