**combination, how many ways to choose r from n numbers**

for(int i=1;i<=100;i++)

{

nCr[i][0]=nCr[i][i]=1;

for(int j=1;j<i;j++)

nCr[i][j]=nCr[i-1][j]+nCr[i-1][j-1];

}

**how many ways to put n different ball into r different box.**

**empty box is not allowed. (Loj 1326)**

nCr[0][0]=nCr[0][1]=nCr[1][1]=ans[1]=1;

for(int i=2; i<=100; i++)

for(int j=1; j<=i; j++)

nCr[i][j]=nCr[i-1][j-1]\*j+nCr[i-1][j]\*j;