Lec-21

Total number of ways
Lexico-counting
0-1000
N-1000
public static void print(int curr, int n) {
if (curr > n) {
return;
}
System.out.println(curr);
int i = 0;
if (curr == 0) {
i = 1;
}
for (; i <= 9; i++) {
}
}
N = 20
public static void print(int curr, int n) {
if (curr > n) {
return;
}
System.out.println(curr);
int i = 0;
if (curr == 0) {
i = 1;
}
for (; i <= 9; i++) {
print(curr * 10 + i, n);
}
}
static String[] key = { "", "", "abc", "def", "ghi", "jkl", "mno", "pqrs", "tuv", "wxyz" };
public static void print(String ques, String ans) {
// TODO Auto-generated method stub
if (ques.length() == 0) {
System.out.println(ans + " ");
}
char ch = ques.charAt(0);// '9'
String press = key[ch - 48];// abc
for (int i = 0; i < press.length(); i++) {
print(ques.substring(1), ans + press.charAt(i));
}
}
Tower_of_Hanoi
public static void TOH(int n, String src, String hlp, String des) {
if (n == 0) {
return;
}
TOH(n - 1, src, des, hlp);
System.out.println("Move " + n + "th disk from " + src + " to " + des);
TOH(n - 1, hlp, src, des);
}
Move 3th disk from A to C
Move 2th disk from A to B
Move 1th disk from C to B
Move 3th disk from A to C
Move 1th disk from B to A
Move 2th disk from B to C
Move 1th disk from A to C