Egg droping problem

class Solution {

Integer[][] dp=new Integer[101][10001];

public int superEggDrop(int K, int N)

{

if(K==1)

return N;

if(N==1 || N==0)

return N;

if(dp[K][N]!=null)

return dp[K][N];

int l=1;

int h=N;

int result=Integer.MAX\_VALUE;

while(l<=h)

{

int mid=(l+h)/2;

int up=superEggDrop(K,N-mid);

int down=superEggDrop(K-1,mid-1);

int temp=1+Math.max(up,down);

if(up>down)

{

l=mid+1;

}

else

{

h=mid-1;

}

result=Math.min(result,temp);

}

return dp[K][N]=result;

}

}