class Solution {

public:

int numDecodings(string s) {

if(s=="0" || s==" ")return 0;

int n=s.size(),k1,k2,i,num;

if(n>=2){

if(s[0]=='0')return 0;

}

int a[n+2];

a[0]=1;

a[1]=1;

for(i=2;i<=n;i++){

k1=s[i-2]-'0';

k2=s[i-1]-'0';

if(k1==0&&k2==0)return 0;

num=k1\*10+k2;

if(num<27&&num>0&&k1!=0){

a[i]=a[i-1]+a[i-2];

//if(k2==0){a[i]=a[i]-1;}

}

else a[i]=a[i-1];

if(k2==0){a[i]=a[i]-a[i-1];}

}

for(i=0;i<=n;i++)cout<<a[i]<<' ';

return a[n];

}

};