#include<iostream>

using namespace std;

int main ()

{

int num,i=0,j;

int binary[1000];

int count=0;

cout << "Enter the number : ";

cin >> num;

cout << "The binary number of " << num << " is "<<endl;

while (num > 0)

{

binary[i]= num % 2;

num /= 2;

i++;

}

for (j=i;j>0;j--)

{

cout<< binary[j]<<endl;

}

for (j=i;j>0;j--)

{

// count==0;

// cout<<binary[j]<<endl;

if(binary[j]==1){

cout<<" count : "<<count<<endl;

count=0;

}

else{

count++;

}

}

// cout<<count;

return 0;

}