#include<iostream>

using namespace std;

int power(int num, int n)

{

int z =0;

if (n == 0)

return 1;

else if (n % 2 == 0)

{

z =power(num, n / 2);

return z\*z;

}

Else

z=power(num,n/2);

return num \* z \* z;

}

int Recursive(int x,int n,int Current = 1,int sum = 0)

{

int result=0;

int p = power(Current,n);

while (p+sum < x)

{

result += Recursive(x,n,Current+1,p+sum);

Current++;

p = power(Current, n);

}

if (p+sum == x)

result++;

return result;

}

int main()

{

int x = 10, n = 2;

cout << Recursive(x, n)<<endl;

system("pause");

return 0;

}