Problem id : 11332

#include<iostream>

using namespace std;

int main(){

int sum,n;

while (cin>>n && n!=0){

int p = n;

while((p/10)>0){

sum=0;

while(n){

sum+=n%10;

n/=10;

}

p=sum;

n=p;

}

cout<<p<<endl;

}

return 0;

}