class Solution {

public:

string intToRoman(int num) {

map<int,string>mp;

mp[1]="I";

mp[2]="II";

mp[3]="III";

mp[4]="IV";

mp[5]="V";

mp[6]="VI";

mp[7]="VII";

mp[8]="VIII";

mp[9]="IX";

mp[10]="X";

mp[20]="XX";

mp[30]="XXX";

mp[40]="XL";

mp[50]="L";

mp[60]="LX";

mp[70]="LXX";

mp[80]="LXXX";

mp[90]="XC";

mp[100]="C";

mp[200]="CC";

mp[300]="CCC";

mp[400]="CD";

mp[500]="D";

mp[600]="DC";

mp[700]="DCC";

mp[800]="DCCC";

mp[900]="CM";

mp[1000]="M";

mp[2000]="MM";

mp[3000]="MMM";

string s="",k;

int A=0,B=0,C=0,D=0;

while(num!=0)

{

A=1\*(num%10);

num/=10;

B=10\*(num%10);

num/=10;

C=100\*(num%10);

num/=10;

D=1000\*(num%10);

num/=10;

}

// cout<<A<<' '<<B<<' '<<C<<' '<<D;

s+=mp[D]+mp[C]+mp[B]+mp[A];

//reverse(s.begin(),s.end());

return s;

}

};