map<char,char> mp ;

void Map()

{

mp['1'] = '`' ,mp['2'] = '1' , mp['3']='2', mp['4'] = '3' ,mp['5'] = '4' , mp['6']='5'

,mp['7'] = '6' , mp['8']='7', mp['9'] = '8' ,mp['0'] = '9' , mp['-']='0' , mp['='] = '-' ;

mp['W'] = 'Q' ,mp['E'] = 'W' , mp['R']='E', mp['T'] = 'R' ,mp['Y'] = 'T' , mp['U']='Y'

,mp['I'] = 'U' , mp['O']='I', mp['P'] = 'O' ,mp['['] = 'P' , mp[']']='[' , mp['\\'] = ']' ;

mp['S'] = 'A' ,mp['D'] = 'S' , mp['F']='D', mp['G'] = 'F' ,mp['H'] = 'G' , mp['J']='H'

,mp['K'] = 'J' , mp['L']='K', mp[';'] = 'L' ;

/\*\*\* important \*\*\*/

mp['\''] = ';' ;

mp['X'] = 'Z' ,mp['C'] = 'X' , mp['V']='C', mp['B'] = 'V' ,mp['N'] = 'B' , mp['M']='N'

,mp[','] = 'M' , mp['.']=',', mp['/'] = '.' ;

mp['\n'] = '\n',mp[' '] = ' ' ;

}

int main()

{

Map() ;

string str;

while(getline(cin,str))

{

for(int i=0 ; i<str.size() ; i++)

{

printf("%c",mp[str[i]]) ;

}

printf("\n") ;

}

return 0;

}