**SOLUTION**

class Solution {

public:

bool isHappy(int n) {

while(true){

long sum=0;

while(n!=0){

int rem=n%10;

n/=10;

sum+=rem\*rem;

}

if(1<=sum && sum<=9){

if(sum==1 || sum==7)

return true;

else

return false;

}

else n=sum;

}

}

};

**TIME COMPLEXITY : O(N)**

**SPACE COMPLEXITY : O(1)**