测试报告

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测试代码：

//崔曼妮

#include <stdio.h>

#include <math.h>

int isNarcissistic(int num);

void displayNarcissisti(int num);

int main()

{

for (int i = 200;i <= 1000;i++){

if(isNarcissistic(i) == 1){

displayNarcissisti(i);

}

}

return 0;

}

int isNarcissistic(int num)

{

int num1,num2,num3,num4,sum;

int temp = num;

num1 = temp/1000;

temp %= 1000;

num2 = temp/100;

temp %= 100;

num3 = temp/10;

temp %= 10;

num4 = temp;

//计算三次方之和

sum = pow(num1,3) + pow(num2,3) + pow(num3,3) + pow(num4,3);

if(sum == num){

return 1;

}

else{

return 0;

}

}

void displayNarcissisti(int the\_num)

{

if(isNarcissistic(the\_num) == 1){

printf("is a narcissistic number\n");

int num[4];

int temp = the\_num;

printf("%d=",the\_num);

num[0] = temp/1000;

temp %= 1000;

num[1] = temp/100;

temp %= 100;

num[2] = temp/10;

temp %= 10;

num[3] = temp;

int i = 0;

while(num[i] == 0){

i++;

}

for(;i < 4;i++){

printf("%d^3",num[i]);

if(i != 3){

printf(" + ");

}

}

printf("\n");

}

else{

printf("it is not a narcissistic number\n");

}

}

测试过程：

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| 序号 | 测试任务 | 测试方法 | 测试结果 | 测试结论 |
| 1 | 编制函数int isNarcissistic(int x)，判断x是否为水仙花数，是返回1，不是为0 | 输入异常值负数  输入不是水仙花的数，打印返回值  输入是水仙花的数，打印返回值 |  | 完成 |
| 2 | 编制函数void displayNarcissisti(int num)如果是水仙花数，打印分解，否则打印it is not a narcissistic number | 输入水仙花数和非水仙花数 |  | 完成 |
| 3 | Main函数调用两个函数，打印200-1000水仙花数 | for循环遍历 |  | 完成 |

测试结论：

三个要求均完成