

An n -digit number that is the sum of the n -th powers of its digits is called an n -narcissistic number. For example, 153 is a 3-narcissistic number since $153 = 1^3 + 5^3 + 3^3$, and 1634 is a 4-narcissistic number since $1634 = 1^4 + 6^4 + 3^4 + 4^4$.

Please complete the following program that prints the sum of all n -narcissistic numbers.

```
#include <csdio>
long long cost[10], ans;
int cnt[10], t[10], n;
void dfs(int rest, int now, long long current) {
    if (rest == 0) {
        long long temp = current;
        for (int i = 0; i < 10; i++)
            t[i] = 0;
        while (temp > 0) {
            ++t[temp % 10];
            temp /= 10;
        }
        bool flag = 1;
        for (int i = 0; i < 10; i++)
            if (cnt[i] != t[i]) {
                flag = 0;
                break;
            }
        if (flag) {
            ans+=current 2分 ;
        }
    }
    return;
}
if ( current<0 2分 ) {
    return;
}
for (cnt[now] = 0; cnt[now] <= rest; cnt[now]++)
    dfs(rest - cnt[now], now + 1, current-=cnt[now]*cost[now] 2分 );
cnt[now] 2分 = 0;
}
int main()
{
    scanf("%d", &n);
    for (int i = 0; i < 10; i++) {
        cost[i] = 1;
        for (int j = 0; j < n; j++)
            cost[i] *= i;
    }
    dfs( n,0,10^n 2分 );
    printf("%lld\n",ans);
    return 0;
}
```

5-2-1 分数 12 LL Rotation

作者 陈越 单位 浙江大学

The function `LL_Rotation` is to do left-left rotation to the trouble-finder tree node `T` in an AVL tree.

```
typedef struct TNode *Tree;
struct TNode {
    int key, h;
    Tree left, right;
};

Tree LL_Rotation( Tree T )
{
    Tree L;

    L = T->left;
    T->left = L->right;
    L->right = T;
    /* Update heights */
    T->h = maxh(Height(T->left), Height(T->right)) + 1;
    L->h = maxh(Height(L->left), Height(L->right))+1;
    return L;
}
```

评测结果 答案正确

得分 12 分



< 提交列表



题目	用户	提交时间
程序填空题	3230100607 庞星磊	2024/11/12 10:34:53
状态 ?	分数	评测时间
部分正确	16 / 22	2024/11/12 10:35:27



5-1-1		4 / 10
填空#	答案	结果
1	ans+=current	答案正确
2	current<0	段错误
3	current-=cnt[now]*cost[now]	答案错误
4	cnt[now]	答案正确
5	n,0,10^n	答案错误

编译器输出 收起

```
a.cpp: In function 'int main()':
a.cpp:33:10: warning: ignoring return value of 'int scanf(const char*, ...)' declared with attribute 'warn_unused_result' [-Wunused-result]
  33 |     scanf("%d", &n);
      | ~~~~~^~~~~~~~~~~
```

5-2-1		12 / 12
填空#	答案	结果
1	T->left	答案正确
2	maxh(Height(L->left), Height(答案正确))+1	6 / 6

编译器输出 查看

