The contest is in progress. It ends about 16 hours from now.

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problem_AA

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In this problem, we give you a solution. Your "only" task is to make it more efficient, so that you would not hit the time limit.

```
def o(s):
    l=len(s)
    return len(set([a+b+c
                    for a in s for b in s for c in s])
               )==l*(l+1)*(l+2)//6
M=int(input())
N=3**M
i=1
s=M*[i]
while i:
    if s[i]-N:
        s[i]=s[i]+1
        if o(s[:i+1]):
            if i<M-1:
                i=i+1
                s[i]=s[i-1]
            else:
                N=s[-1]
    else:
        i=i-1
print(N)
```

So write a program which gives the same output as the following Python program, but runs within the time limit.

Sample Input 1:

2

Sample Output 1:

2

Sample Input 2:

4

Sample Output 2:

12

You can assume that the input is a single number n in the range 1 < n < 11

Problem Author: IEEE

| Emacs | Normal | Vim | | Select Language: | C++ ▼ | ⤢ |

save code

```cpp
#include <cmath>
#include <cstdio>
#include <vector>
#include <iostream>
#include <algorithm>
using namespace std;


int main() {
    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
    return 0;
}

```

Line: 1 Col: 1 Count: 227

☐ **Use a custom test case**

⬆ Upload Code as File

Compile & Test   Submit Code

This is a beta version. Join us on IRC at #hackerrank on freenode for hugs or bugs.

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