

The contest is in progress. It ends 2 minutes from now.

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problem_AA

Problem

Submissions

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Discussions

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[Suggest Edits](#)

Emacs Normal Vim

Select Language: Java

save code

```
1 def o(s):
2     l=len(s)
3     return len(set([a+b+c
4                     for a in s for b in s for c in s])
5                    )==l*(l+1)*(l+2)//6
6 M=int(input())
7 N=3**M
8 i=1
9 s=M*[i]
10 while i:
11     if s[i]-N:
12         s[i]=s[i]+1
13         if o(s[:i+1]):
14             if i<M-1:
15                 i=i+1
16                 s[i]=s[i-1]
17             else:
18                 N=s[-1]
19     else:
20         i=i-1
21 print(N)
```

Line: 1 Col: 1 Count: 386

☐ Use a custom test case Upload Code as File

Compile & Test

Submit Code

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