

Ubuntu Pastebin

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```
1 //Catalan series
2 int catalain_number(long long int n)
3 {
4     if(a[n]!=0) return a[n];
5     a[n]=(catalain_number(n-1)*(4*n-2))/(n+1); return a[n];
6 }
7 int main()
8 {
9     long long int n,t,b,c,d,i,j,k=1; a[1]=1;
10    for(i=2; i<=30; i++)
11        catalain_number(i);
12    while(sc("%lld",&n)==1)
13    {
14        b=0;
15        for(i=1;i<=30;i++)
16        {
17            if(a[i]>=n)
18            {
19                b=i; break;
20            }
21        }
22        pt("%lld\n",b);
23    }
24 }
25
26 int arr[]={1, 1, 2, 5, 14, 42, 132, 429, 1430, 4862, 16796, 58786,
27 208012, 742900,2674440, 9694845, 35357670, 129644790, 477638700, 1767263190};
28
```

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