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[illegible]

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O(N!) O(2^n)
 $f_n = 2 * f_{n-1} + 1$
 $g(n) = 2 * g(n-1) + n$

```

#include<iostream>
using namespace std;
#define N 60
int a[N+1];
int b[N+1];
int main()
{
    int n;
    a[1]=1;
    b[1]=1;
    cin >> n;
    for(int i=2;i<=n;i++)
    {
        a[i] =a[i-1]*2 + 1;
        b[i] =b[i-1]*2 + i;
    }
    cout<<a[n]<<" "<<b[n];
}

```

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