**masDivide And Conquer**

Interesting Question :

Good friends :

We call 2 person good friends if their strings are equal. Seems easy, as life is not easy let’s make it little difficult here “equal” has little different meaning. :p

2 strings S1 and S2 are called equal if and only if :

1. They are equal.
2. If we split string into 2 equal parts i.e. S1 into S1\_first, S1\_second and

S2 into S2\_first , S2\_second then any one of following is correct :

1. S1\_first == S2\_first and S1\_second == S2\_second
2. S1\_first == S2\_second and S1\_second == S2\_first

Now tell if friends having 2 string equal or not ?

Seems Easy :p

Lets give a try !!!! :D

Hint : make lexicographically smallest string ( not simply but by given rules )

**Fast Fourier Transform(FFT):**

Very Detailed: <http://codeforces.com/blog/entry/43499>

Good Brief: <http://www.cs.cmu.edu/afs/cs/academic/class/15451-s10/www/lectures/lect0423.txt>

Implementation: <http://e-maxx.ru/algo/fft_multiply>

1. <http://www.spoj.com/problems/TMUL/> fft medium solution

2. <http://www.spoj.com/problems/MUL/> fft medium solution

3. <http://www.spoj.com/problems/VFMUL/> fft medium solution

**Closest Pair of Points:**

1. <http://www.spoj.com/problems/CLOPPAIR/> closest\_pair medium

2. <http://www.spoj.com/problems/CPP/> closest\_pair medium

**Inversion Count:**

1c. <http://www.spoj.com/problems/INVCNT/> inversion\_count easy <http://pastebin.com/h2wehtg5>

2. <http://www.spoj.com/problems/CODESPTB/> inversion\_count easy

3c. <http://www.spoj.com/problems/DCEPC206/> inversion\_count easy <https://codinghangover.wordpress.com/2014/12/16/spojdcepc206-its-a-murder/> <http://pastebin.com/ju1zHWhg> imp solution

**Sorting and Others:**

1. <http://www.spoj.com/problems/DOTAA/> easy

2. <http://www.spoj.com/problems/CANDY/> easy

3. <http://www.spoj.com/problems/MAIN8_C/> medium

4. <http://www.spoj.com/problems/WORDCNT> medium

**Binary Search:**

1. <http://www.spoj.com/problems/BSEARCH1/> cakewalk normal\_binary\_search

2. <https://www.codechef.com/problems/FORESTGA> binary\_search\_range imp <https://discuss.codechef.com/questions/81382/forestga-editorial>

Solution

3. [http://www.spoj.com/problems](http://www.spoj.com/problems/BSEARCH1/)/AGGRCOW (imp)

4. <http://codeforces.com/problemset/problem/702/C> lower\_bound easy-medium imp solution

5. <http://www.spoj.com/problems/PRATA/> difficult priority\_queue binary\_search solution

6. <http://codeforces.com/problemset/problem/689/C> medium