World Finals 2014 Plan

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This is our main Plan for the ACM ICPC WORLD FINALS 2014.Everybody is kindly requested to review our plan listed below.

Working Days Left:

April (20 -30) 10 days (Approx.. due to Lab+Thesis+Viva)
May --------- 28 days (Approx.. due to Visa issues)
June --------- 15 days (Approx.. due to departure preparation)

Total --------- 53 days (Approx.. 7 Weeks)

Our Plan Description:

We have competed in several past World Finals Contests and Also other European Regionals (Virtually). We have Observed that in world finals most of the problems are based on algorithms that are well known to most ACM programmers, But the trick resides on how do you use it... mainly the observation. Problems related to Complex Algorithms are known to be very hard problems (Difficuly 7-10) which is not in our focus currently.

We have also found out that In the Past World Finals there are some categories of problems that are very frequent.

They Are :

1) Dynamic Programming (Expected to face atleast 2 problems for the Current World Finals)
2) Deep Observation + Backtrack + Pruning (Expected to face atleast 1 problem)
3) Hardcore Simulation (Expected to face atleast 1 problem)
4) Standard Graph Problems with Deep Observation (Expected to face atleast 1 problem)
5) Geometry + Integration + Gaussian Elimation + Standard Numerical Analysis
6) Flow (There is a high chance that there will be a flow related problem)

Thus We are Targetting these categories listed above.

So far our final plan is proposed below :

1) Dynamic Programming (2 Weeks)
2) Observation + Backtrack (1 Week)
3) Flow + Other Graph (1 Week)
4) Geometry + Simulation + Integration (1 Week)
5) World Finals (2011,12,13) (9 days)
6) NEERC (10,11,12) (5 days)

To practice the above categories we have gathered some problem list which can be found in “Asia Regional Category.pdf” and “NEERC problem category.pdf” files.We have specificly chosen NEERC (North Eastern European Regional) and some of the Asian Regionals as their problemset is equivalent to World Finals. One other important factor is that the Top teams competeing in World Finals comes specificly from these regions. Thus we are emphasizing on these problem sets.

Final Summary :

We are focusing on those categories that we are already good at and we want to confirm that we are able to solve those problems in the World Finals. And Inshallah we are 95% sure that there will be atleast 4/5 problems within the above category .

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1) Imtiaz Shakil Siddique (9 – April)
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