**Problem Set Management**

One of the basic features of a Programming Platform is to give the programmers the opportunity to practice programming problems to enhance their coding skills. A programming platform is supposed to have some predefined problems which have been set by the administrator.

This problem set will be categorized into various sections keeping in mind the variety of programming skills of problem solvers. For now the sections will be Beginners, Moderate and Advanced.

* The Beginners section will contain the problems that are suitable and designed for a newbie who only possess a tiny knowledge about problem solving.
* The Moderate section will contain programming problems that are designed for programmers who are well noted with some basic programming knowledge like data structure, graph algorithms, number theory etc. This section will be mainly designed people who are assumed to have practiced the problems set in the Beginners section.
* In the Advanced section, it is assumed the solvers are well familiar with advanced programming like dynamic programming, bitwise operations etc.

Again in the problem set there will be a section which will contain all the problems of previously arranged contests.

All the problems will be set by the administrator. Users can surf through the problem set and solve the problems of their choice.

**Programming Contest Management**

Arrangement of contest is the greatest feature of a programming platform or judge. An administrator can arrange programming contests.

To arrange a contest, the administrator needs to set problems. The administrator will set a problem by uploading a problem description file which will be a portable document format (pdf) file. The administrator will also upload a test input file and a solution file corresponding to every problem. The duration of the contest will also be set by the administrator.

After the contest, the problems of the contest will also be added to problem set.