

Joint Programming Training in Taiwan

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Abstract

In Taiwan, ACM-ICPC Regional Contest is held every year. In order to popularize programming contest and polish students' programming skill, Collegiate Programming Examination (CPE), an online personal programming examination is held 4 times each year. In 2014, more than 1000 students from 46 universities participate in CPE. Now CPE has become the standard test of programming skill in Taiwan. The CPE is an individual contest, not a team's contest.

Based on it, in order to improve programming training better, Joint Programming Training (JPT) is held in Taiwan. JPT is to organize students in Taiwan to participate in systematic programming training and organize professional programming teams in universities.

Training modes for JPT are as follow.

1) Programming training camps in vacations.

In summer vacation and winter vacation, programming training camps are hosted by a university. Students come to the university and focus on programming training about 2 to 3 weeks. And each week students train 6 days. In each training day, personal programming ability training or team work training is held.

For personal programming ability training, a three-hour lecture is given in the morning; a five-hour mock programming contest, based on the lecture, is held in the afternoon. Such lectures and mock contests set up students' programming knowledge system and strategies solving problems in a systemic mode.

For team work training, a set of contest problems is as a mock five-hour programming contest. After the contest, students discuss and summarize their performance based on test data, solutions and analysis to problems. And based on it, they give their contest report used to review in the future.

2) Participating in a series of online contests in semester.

In semester there are a series of online contests. Students participate in these online contests to polish their experience and ability solving problems under pressure. After the contests students are required to share their experience and solutions to problems.

JPT can make students from different universities share information and experience for programming contests, compete and cooperate in the training, and polish their programming skill and team work better. We hope it can be popularized in Asia Region.

Keywords: Joint Programming Training (JPT), Collegiate Programming Examination (CPE), programming training camp, mock programming contest, online contest.