



CTU Open Contest 2007

Advanced Creative Marketing

Dear Contestants!

Welcome to the Czech Technical University Open Contest 2007. Every year since 1995, our university invites best programmers to solve a set of real-life problems.

Today, your task will be to create computer software for a new advertising agency called **Advanced Creative Marketing** (ACM). Unlike in previous years, you may use C, C++, Pascal, or Java programming languages. The choice is yours but you will be fully responsible for the speed of your solution. ACM needs efficient and fast programs, because in marketing, everything changes very dynamically.

All of your programs will read one single file from the standard input. The results will be written to the standard output. You are not allowed to use any other files. Input and output formats are described in problem statements and your program must comply with it. If not specified otherwise, all input numbers and results will fit into a signed 32-bit integer type.

As mentioned before, we need the correct answer produced in some limited time. Nothing else matters. You may choose any algorithm, any programming style.

Good luck with your mission!

Your organizing team

This problem set consists of ten sheets of paper (including this one) and contains nine problems. Please make sure that you have the complete set.