Czech ACM Student Chapter

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CTU Open Contest 2012

From Insect Life

We have prepared a set of problems dealing with the life of insects. To our knowledge, this topic has not been extensively studied since the theatrical play by Čapek brothers in 1921.

You will meet again all the heroes that have been introduced yesterday, such as Andrew the Ant, Charlie the Cockchafer, or Gregory the Grasshopper. In addition, we will also talk about their other insect friends. Since you may not be familiar with English names of some insect species, here is a small vocabulary for you:

English	**Latin**	**Czech**	**Slovak**
Centipede	Scolopendra cingulata	stonožka	stonôžka
Cockchafer	Melolontha melolontha	chroust	chrúst
Grasshopper	Tettigonia viridissima	kobylka	kobylka
Ladybug	Coccinella septempunctata	slunéčko ("beruška")	lienka
Rhinoceros	Oryctes nasicornis	nosorožík	nosorožtek

Your programs can be written in C, C++, or Java programming languages. The choice is yours but you will be fully responsible for the correctness and efficiency of your solutions. We need the correct answer produced in some appropriate time. Nothing else matters. You may choose any algorithm and any programming style.

All programs will read text from the standard input. The results must be written to the standard output. Input and output formats are described in problem statements and must be strictly followed. Do not print anything more than required. Each text line (including the last one) should be terminated by a newline character ("`\n`"), which is not considered to be a part of that line. You are not allowed to use any other files, communicate over network, or create processes.

Good luck in the Czech Technical University Open Contest 2012!

This problem set consists of 9 sheets of paper (including this one) and contains eight problems. Please make sure that you have the complete set.