

SPOJ Problem Set (classical)

870. Basically Speaking

Problem code: BASE

The Really Neato Calculator Company, Inc. has recently hired your team to help design their Super Neato Model I calculator. As a computer scientist you suggested to the company that it would be neat if this new calculator could convert among number bases. The company thought this was a stupendous idea and has asked your team to come up with the prototype program for doing base conversion. The project manager of the Super Neato Model I calculator has informed you that the calculator will have the following neat features:

- It will have a 7-digital display.
- Its buttons will include the capital letters A through F in addition to the digits 0 through 9.
- It will support bases 2 through 16.

The input for your prototype program will consist of one base conversion per line. There will be three numbers per line. The first number will be the number in the base you are converting from. The second number is the base you are converting from. The third number is the base you are converting to. There will be one or more blanks surrounding (on either side of) the numbers. There are several lines of input and your program should continue to read until the end of file is reached.

The output will only be the converted number as it would appear on the display of the calculator. The number should be right justified in the 7-digit display. If the number is too large to appear on the display, then print "ERROR" (without the quotes) right justified in the display.

A sample input file is shown here:

```
1111000 2 10
1111000 2 16
2102101 3 10
2102101 3 15
 12312 4 2
   1A 15 2
1234567 10 16
  ABCD 16 15
```

The following output file should be produced from the above sample input:

```
  120
   78
 1765
 7CA
ERROR
11001
12D687
 D071
```

Added by: Wanderley Guimaraes
Date: 2006-06-01
Time limit: 1s
Source limit:50000B
Languages: All
Resource: ACM Mid Central Regionals 1995