CS 352 (MIPS) – Multiple-base Palindromes

The decimal number, $717 = 1011001101_2$ (binary), is palindromic in BOTH bases. Note that the palindromic number, in either base, do not include leading zeros.

Write a MIPS program to print all pairs of these palindromic numbers up to a maximum number (n) to be determined by a user prompt (see output dialog box below). Include a boolean function named <code>isPalidrome(x, k)</code> that returns true if a number x (either in base 10 or 2) is a palindrome in base k. You may also include other functions that you think would be helpful.

Output dialog

Submission

The following instructions must be adhered to:

- 1. Name your file <lastname_1st initial>.asm → e.g., tanj.asm
- 2. Drop said file to the W drive for cs352.
- 3. Email your file to the TA: mullise6725@uwec.edu and also a copy to me.