



Math Olympiad and Problem Solving Programs
F120 - Intermediate Problem Solving
Problem Set 1.2 - Palindrome

Name:

Date:

1.
2.
3.
4.
5.
6.
7. There are 3 months that have two-digit month numbers: October, November, and December. So the three 4-digit Palindromic Dates are 1001, 1111, 1221.
8. The month January has four Palindromic Dates: 101, 111, 121, 131. The rest of the months only have 3.
9. (a)
(b)
(c)
10. Palindromes between 100 and 200 have to be three digits long and start with 1, so then they must end with 1 as well. Now we must determine what number can go in the middle. Any digit can go in the middle, so there are 10 palindromes between 100 and 200.