COP 2210 Introduction to Programming

	Examination 2	
Name:		
	November 16, 1998	

This exam has 3 additional pages. Please answer each question on the page on which it is asked. You may write on the back of a page if you need to.

1. [60 pts] A string is a palindrone if its characters are the same forwards and backwards. Examples of palindrones are "anna" and "tarat". Write a function that takes an apstring as a parameter and returns true if it is a palindrone, and false otherwise.

2. [70 pts] Two apvectors are equal if they have the same length and the same elements in the same order. Complete function IsEqual below that returns true if two apvectors are equal, and false otherwise:

```
bool IsEqual( const apvector<int> & v1, const apvector<int> & v2 ) {
```

3. [70 pts] Function WithoutDuplicates returns an apvector that contains the same elements as its parameter, in sorted order, but with duplicates removed. *HINT*: Sort the copy, and then scan to remove duplicates, which must then be adjacent. Complete function WithoutDuplicates below; you may assume the existence of the function Sort declared. (For 25 points extra credit, implement Sort, too).