## Practice Problem 2.10 (solution page 182)

As an application of the property that  $a \wedge a = 0$  for any bit vector a, consider the following program:

As the name implies, we claim that the effect of this procedure is to swap the values stored at the locations denoted by pointer variables  $\mathbf{x}$  and  $\mathbf{y}$ . Note that unlike the usual technique for swapping two values, we do not need a third location to temporarily store one value while we are moving the other. There is no performance advantage to this way of swapping; it is merely an intellectual amusement

Step	*x	*у
Initially	а	- 21
Step 1	a	O', p
Step 2	Ь	276
Step 3	6	a
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