Assignment 3

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1.

```
def Hanoi(n, src, dst)
if(n == 1):
  move the plate from src to dst
else:
  Hanoi(n, src, another peg except src and dst)
  move the bottom plate from src to dst
  Hanoi(n, another peg except src and dst, dst)
```

2. The Vole Machine Language is as followed:

0x10XX

0x11YY

0x6001

0x30ZZ

3. If passed by value: 7 5

If passed by reference: 7 7

4. If passed by value: 5 9 5

If passed by reference: 9 9 9

5. The string defined by the syntax diagram is a palindrome, which has the same number of "x"s at the head and the back, and a "y" in the middle.

The parse tree for xxyxx is as followed:

