Pseudocode Test

**Part A:** Convert the following pseudocode into Java source code.

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|  | **pseudocode** | **Java** |
| 1 | N1 = 8  N2 = 19  if N1 = N2 then  output N1, " is equal to ", N2  else if N1 < N2  output N1, " is less than ", N2  else  output N1, " is greater than ", N2  end if |  |
| 2 | STR1 = "dog"  STR2 = "cat"  NUM = 25  if NOT STR1 = STR2 AND  STR1.length() <= STR2.length() then  NUM = NUM + 5  end if  output NUM |  |
| 3 | COUNT = 0  loop while COUNT < 50  output COUNT div 2  COUNT = COUNT + 1  end loop |  |
| 4 | COUNT = 0  SUM = 0  loop until COUNT = 10  SUM = SUM + COUNT  COUNT = COUNT + 1  end loop |  |
| 5 | loop I from 1 to 10  if I mod 2 = 0 then  output "even"  else  output "odd"  end if  end loop |  |
| 6 | loop X from 0 to ARRAY.length - 1  if ARRAY[X] <= 10 then  ARRAY[X] = ARRAY[X] \* 2  end if  end loop |  |

**Part B:** Convert the following flowcharts into pseudocode.

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|  | **flowchart** | **pseudocode** |
| 7 |  |  |
| 8 |  |  |

**Part C**: Write pseudocode for the following problems.

10. Determine if two numbers are both greater than 0. If they are print "positive integers" otherwise   
 print "negative integers".

11. Given two random strings write an algorithm that will display the strings in alphabetical order.   
 Assume the two strings have already been defined and assigned string values.

12. Display the odd numbers from 1 to 100.