Pseudocode

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

	pseudocode	Java

1	A = 5
	B = 10
	if A < B then
	  output A, " is less than ", B
	else
	  output A, " is greater than ", B
	end if	

2	STR1 = "red"
	STR2 = "blue"
	if NOT STR1 = STR2 then
	  STR1 = "blue"
	end if
	output STR1	

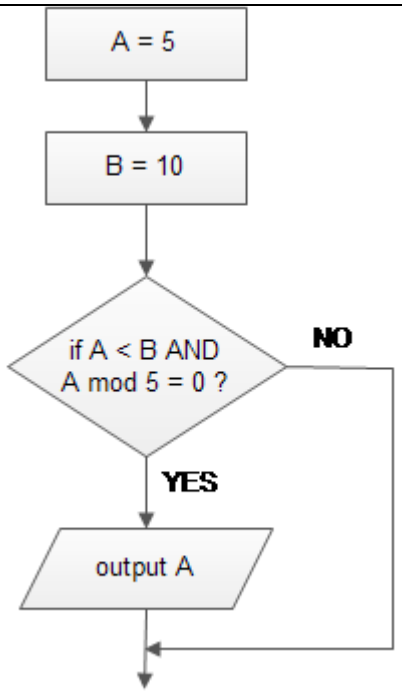
3	COUNT = 0
	loop while COUNT < 20
	  output COUNT
	  COUNT = COUNT + 2
	end loop	

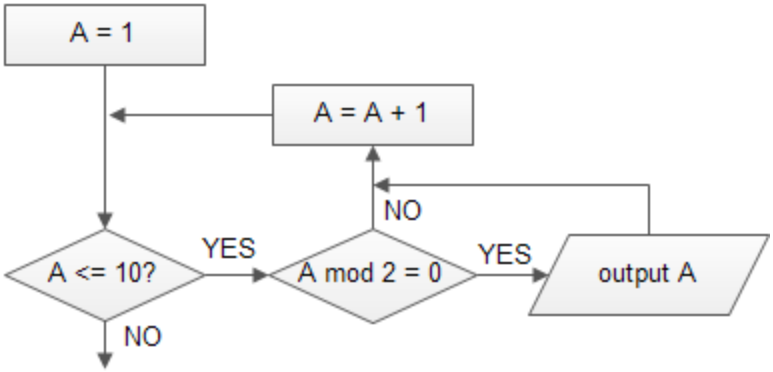
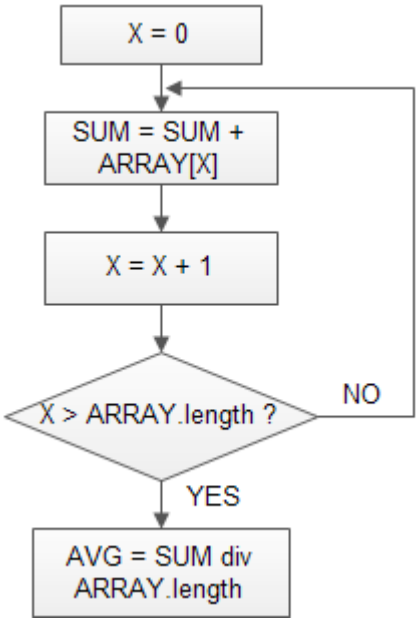
4	COUNT = 0
	SUM = 0
	loop until COUNT = 10
	  SUM = SUM + COUNT
	  COUNT = COUNT + 1
	end loop	

5	loop X from 1 to 10
	  if X 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] > ARRAY[X + 1] then
	  TEMP = ARRAY[X + 1]
	  ARRAY[X + 1] = ARRAY[X]
	  ARRAY[X] = TEMP
	  end if
	end loop	

Part B: Convert the following flowcharts into pseudocode.

	flowchart	pseudocode
7		

8		
9		

Part C: Write pseudocode for the following problems.

10. Determine if two numbers are equal. If they are equal print "same" otherwise print "different".

11. A method returns true if a given string contains the letter "a" otherwise it returns false.

12. A method returns true if a given number is prime otherwise it returns false. A number is prime if it is only divisible by itself and one.