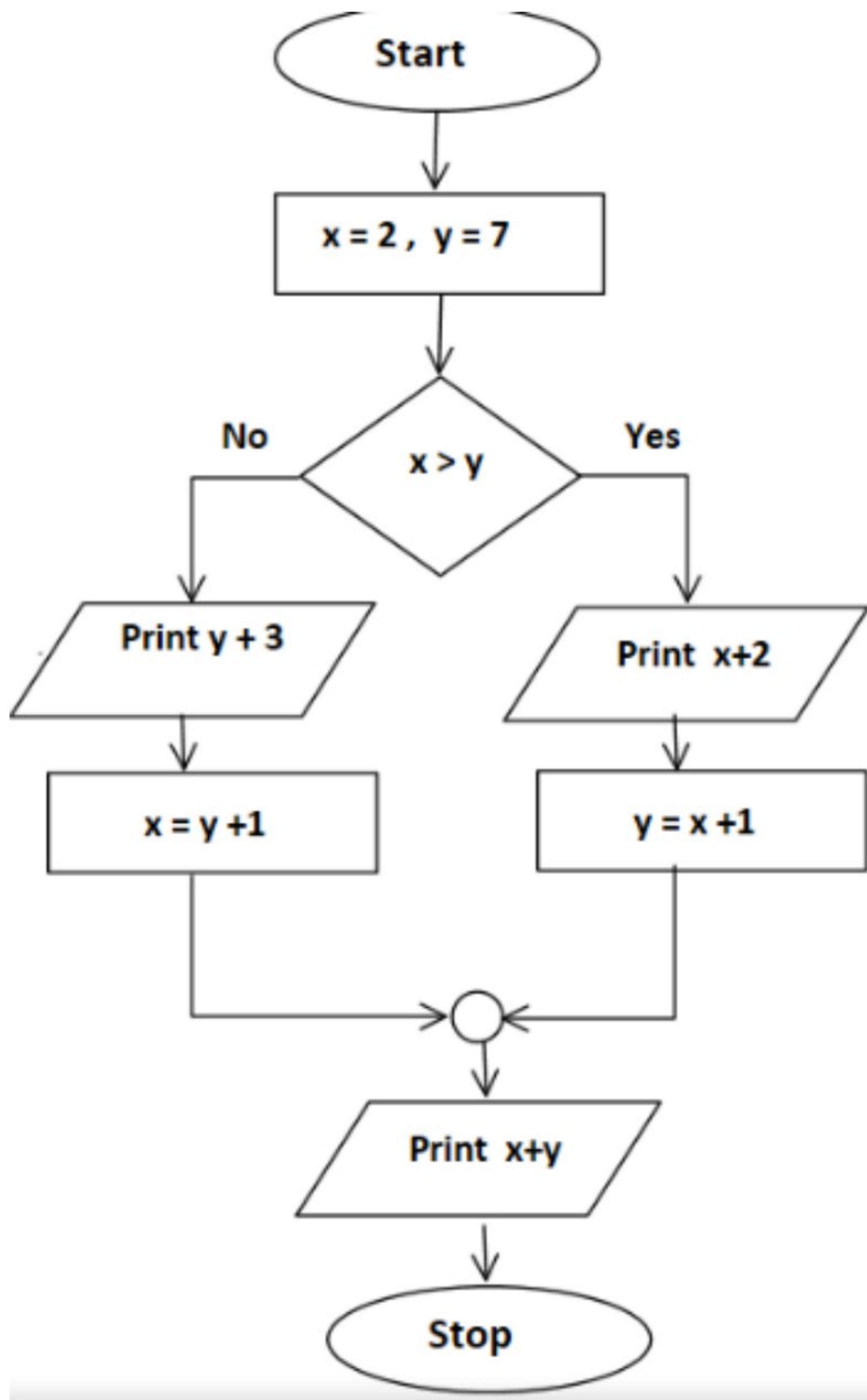


King Abdullah II School of Information Technology
Computer Skills for Medical Students
Assignment 1: Problem Solving

Choose the correct answer for each of the following questions:

1. Which of the following assignment statements is correct:			
a. $A+3=10$	b. $3=B$	c. $M=A+2$	d. $F+4$
2. What is the value of X after solving the following equation? $X = ((5 \wedge 2 / 5) \wedge 2 + 5) - 10 * 4 / 2 + 12 \bmod 4 - 1$			
	b. 5	c. 3	d. 9
3. What is the value of Y after solving the following expression? $Y = \text{Not } 15 \bmod 5 = 24/6 \text{ And } 50 / 2 \geq 5 \wedge 2 \text{ And Not True}$			
a. False	b. True	c. 5	d. -1
4. What is the output for the following pseudo code, given the following numbers (2, 8, 7, 1, 4)? 1. $C = 2$ 2. If $C \leq 3$ then Go to step 4 3. Go to step 8 4. Input x ,y 5. print $x*3$ 6. Increment C by 1 7. Go to step 2 8. Print $x + y$ 9. End			
a. 8	b. 6 21 8	c. 6 21 7	d. 16 21 1
5. Which of the following pseudo code will read a number and then print whether it's Positive or Negative Number?			
a. 1. Input x 2. if $x \geq 0$ then Print "x is Positive" 3. Print "x is Negative" 4. end	b. 1. Input x 2. if $x \geq 0$ then Print "x is Negative" 3. Print "x is Positive" 4. end	c. 1. Input x 2. if $x \geq 0$ then Print "x is Positive" else Print "x is Negative" 3. end	d. None of them

6. What is the output for the following flowchart?

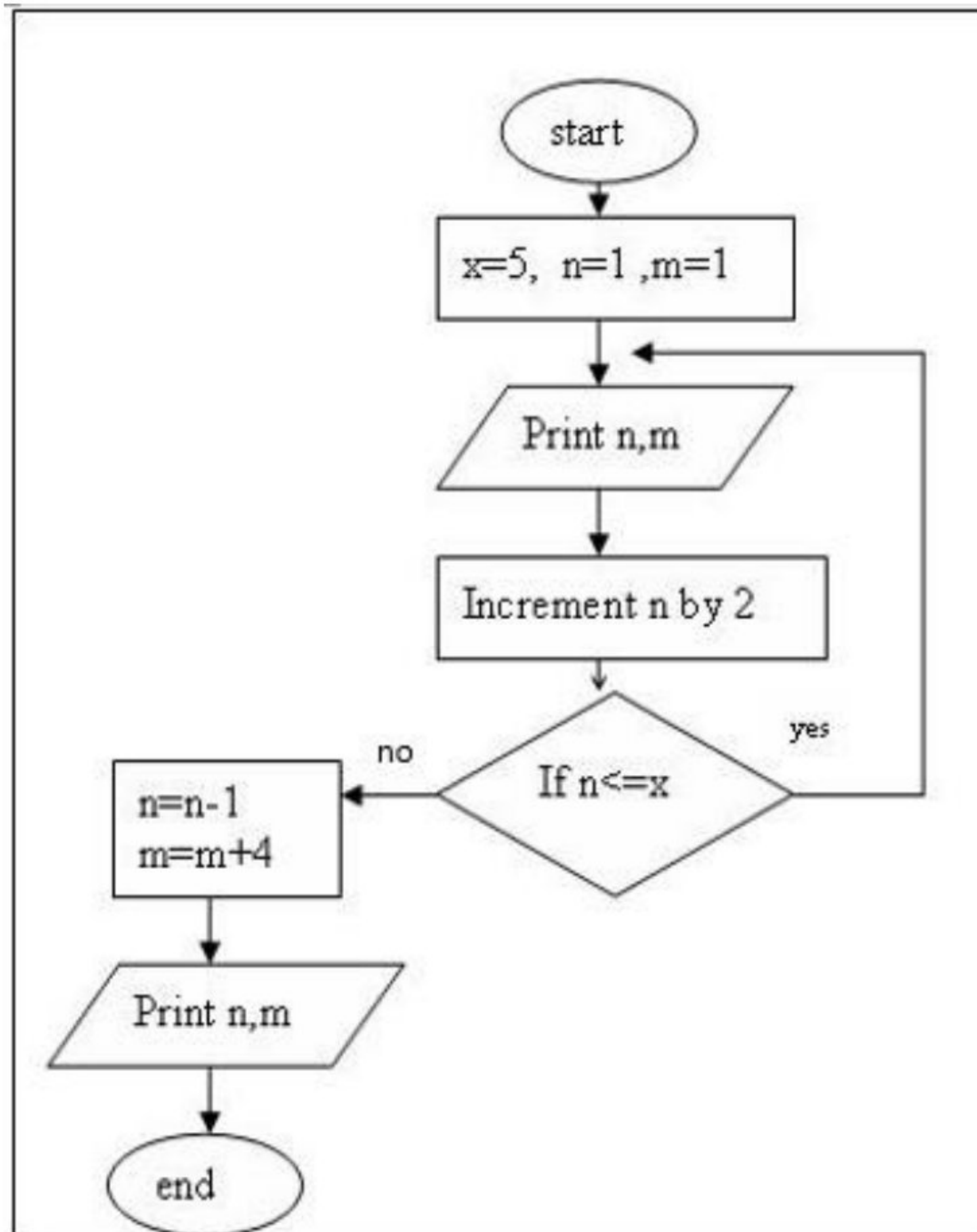


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|----------|---------|--------|----------|
| a. 10 15 | b. 10 9 | c. 4 5 | d. 10 11 |
|----------|---------|--------|----------|

7. What is the equivalent Pseudo Code for the flowchart in question 6?

- | | | | |
|--|---|---|---|
| <p>a. 1. Start
2. Input x, y
3. if $x > y$ then print $x+2$, $y=x+1$ else print $y+3$, $x=y+1$
4. print $x+y$
5. Stop</p> | <p>b. 1. Start
2. $x=2, y=7$
3. if $x > y$ then print $x+2$, $y=x+1$ else print $y+3$, $x=y+1$
4. print $x+y$
5. Stop</p> | <p>c. 1. Start
2. $x=2, y=7$
3. if $x > y$ then print $x+2$, $y=x+1$ else print $y+3$
4. $x=y+1$
5. print $x+y$
6. Stop</p> | <p>d. 1. Start
2. $x=2, y=7$
3. if $x > y$ then print $x+2$, $y=x+1$
4. print $y+3$
5. $x=y+1$
6. print $x+y$
7. Stop</p> |
|--|---|---|---|

8. What is the output for the following flowchart?



- | | | | |
|----------------|---------------------------|--------------------|--------------------|
| a. 1 1 3 1 5 1 | b. 1 1 3 1 5 1 6 5 | c. 1 1 3 1 5 1 4 5 | d. 1 1 3 1 5 1 5 6 |
|----------------|---------------------------|--------------------|--------------------|

9. What is the equivalent Pseudo Code for the flowchart in question 8?

- | | | | |
|--|--|--|--|
| a. 1. Start
2. x=5, n=1, m=1
3. print n, m
4. Increment n by 2
5. If n<=x then goto 3
6. n=n-1, m=m+4
7. Print n, m
8. end | b. 1. Start
2. x=5, n=1, m=1
3. print n, m
4. Increment n by 2
5. If n<=x then goto 2
6. n=n-1, m=m+4
7. end | c. 1. Start
2. x=5, n=1, m=1
3. print n, m
4. Increment n by 2
5. If n<=x then n=n-1, m=m+4
6. Print n, m
7. end | d. 1. Start
2. Input x,n,m
3. print n, m
4. Increment n by 2
5. If n<=x then n=n-1, m=m+4
6. Print n, m
7. end |
|--|--|--|--|

10. The type of the flowchart in Question 8 is :

- | | | | |
|-------------|--------------|-------------------|--|
| a. Sequence | b. Selection | c. Looping | |
|-------------|--------------|-------------------|--|