Worksheet for Chapter 5

Read the chapter and answer the following questions. – 10 points each

1. How is **while** loop different from **do-while**?

Answer:

- While loop is an expression which acts as a decision maker and is usually a logical expression.

-Do while loop is a control flow statement that executes a block of code at least once, and then repeatedly executes the block.

1. Write a general format for the **while** loop.

Answer:

While(expression)

Statement

1. Write a general format for the **for** loop.

Answer:

For (initial statement, loop condition, update statement)

Statement

1. Write a general format for the **do-while** loop.

Answer:

Do

Statement

While(expression);

1. What is an example of a Fibonacci sequence? Give an example of a Fibonacci sequence.

Answer:

Fibonacci sequence is the series of numbers.

Example: a(n)= a(n)-1 + a(n)-2

Thus:

a(3)= 1 , a(2)= 1.

a(3)= a(2) + a(1)= 1+1=2;

a(4)= a(3) +a (2)= 2+1=3;

And so on.

1. Complete exercise on p.325 #2.

Answer:

i = 10 ; temp= 40320

1. Complete exercise on p. 325 #4.

Answer:

1 2 3 4 5 6 7

1. Complete exercise on p. 326 #8.

Answer:

Sum = 47

1. Complete exercise on p. 327 #12.

Answer:

0 1 1 3 3 0 5 0 1

1. Complete exercise on p. 331 #24.

Answer:

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