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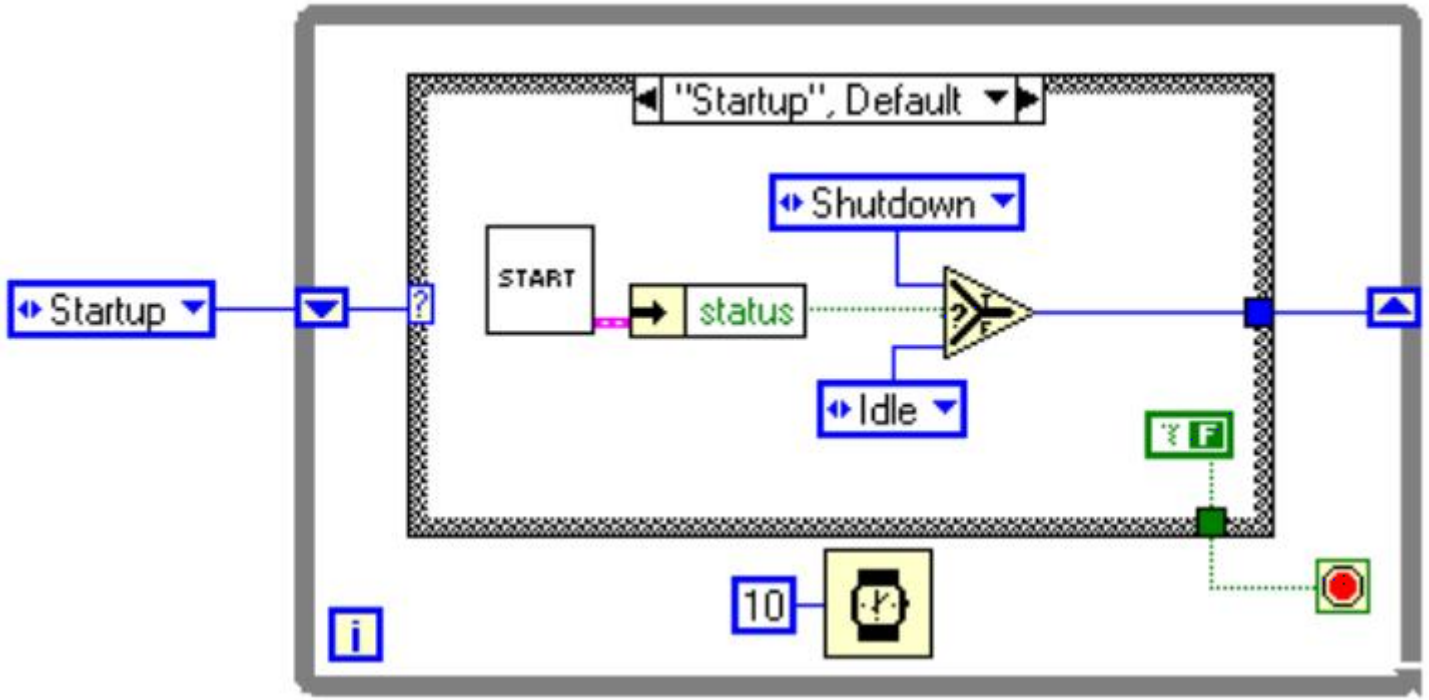
Question 1

Question Type: MultipleChoice

The following block diagram represents which common type of VI architecture?



Options:

A- Multiple Case Structure VI

B- General VI

C- State Machine VI

D- Parallel Loop VI

Answer:

C

Question 2

Question Type: MultipleChoice

The most efficient method for creating an array is:

Options:

A- Using a For loop with Auto-indexing

B- Placing a build array function in a While loop

C- Initializing an array and then replacing elements in a While loop

D- Using a While loop with Auto-Indexing

Answer:

A

Question 3

Question Type: MultipleChoice

Which of the following statements is false?

Options:

A- A SubVI connector pane defines where to wire inputs and outputs

B- The color of a SubVI connector pane terminal matches the data type it is connected to

C- You must have an icon/connector to use a SubVI

D- A SubVI icon can be edited from the functions palette

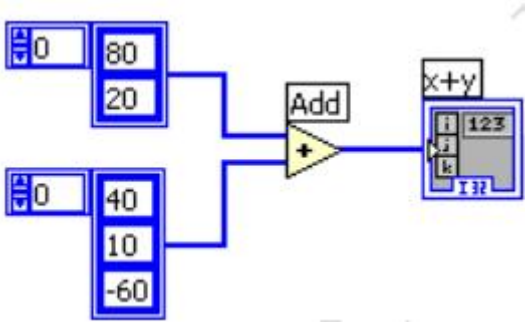
Answer:

D

Question 4

Question Type: **MultipleChoice**

What is the result of the following Array addition?



Options:

A- a.1-D Array of {80, 20, 40, 10, -60}

B- b.1-D Array of {120, 30, -60}

C- c.1-D Array of {120, 30}

D- d.2-D Array of {{120, 90, 20}, {60, 30, -40}}

Answer:

C

Question 5

Question Type: MultipleChoice

You must store data that other engineers must analyze with Microsoft Excel. Which file storage format should you use?

Options:

A- Tab-delimited ASCII

B- Custom binary format

C- TDM

D- Data log

Answer:

A

Question 6

Question Type: MultipleChoice

Which of the following does not conform to data flow programming paradigm?

Options:

A- Shift Registers

B- Tunnels

C- SubVIs

D- Local Variables

Answer:

D

Question 7

Question Type: MultipleChoice

Which of the following will cause an event to be captured by the LabVIEW Event Structure?

Options:

A- Changing a value on a Front Panel control via a mouse click

B- Update of a Front Panel control using a property node

C- Programmatic update of a Front Panel control via a control reference

D- Using VI Server to update a Front Panel control

Answer:

A

Question 8

Question Type: **MultipleChoice**

You are inputting data that represents a circle. The circle data includes an x position, a y position, and a radius. All three pieces of data are double-precision. In the future, you might need to store the color of the circle, represented as an integer. How should you represent the circle on your front panel window?

Options:

A- Three separate controls for the two positions and the radius.

B- A cluster containing all of the data.

C- A type definition containing a cluster.

D- An array with three elements.

Answer:

C

Question 9

Question Type: MultipleChoice

Under which of the following conditions does a For loop stop executing?

Options:

A- When a false value is present at the conditional terminal and the conditional terminal is

B- When the value of the iteration terminal, , is one less than the value of the count terminal,

C- When the value of the iteration terminal, , is one more than the value of the count terminal,

D- None of the above

Answer:

B

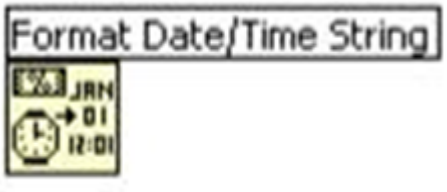
Question 10

Question Type: MultipleChoice

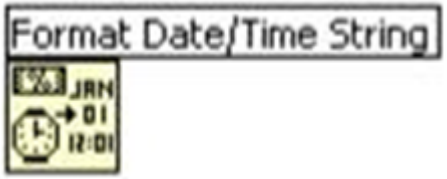
Which timing function (VI) is the best choice for timing control logic in applications that run for extended periods of time?

Options:

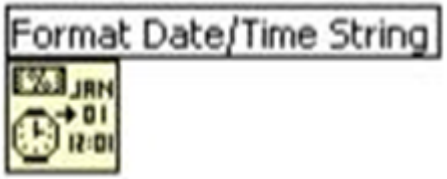
A- Option A



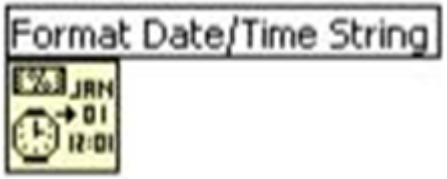
B- Option B



C- Option C



D- Option D



Answer:

C

Question 11

Question Type: MultipleChoice

Which of the following illustrates an advantage of a global variable over a local variable?

Options:

A- A global variable can pass data between two independent VIs running simultaneously

B- Only the global variable can pass array data, local variables cannot

C- Global variables follow the dataflow model, and therefore cannot cause race conditions

D- Global variables do not require owned labels to operate

Answer:

A

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