Name: _____

Use this quiz to help make sure you understand the videos/reading. ***Answer all questions.*** Make additional notes as desired. ***Not sure of an answer?*** Ask your instructor to explain in class and revise as needed then. ***Bring a printout of the completed quiz to your Session 9 class.***

Throughout, where you are asked to "circle your choice", you can circle or underline it (whichever you prefer).

Video: ***The Wait-Until-Event Pattern*** [7:34 minutes]

1. Write a ***definite loop (using a `for` statement)*** that prints the numbers 1 through 1000, inclusive.

2. One of the following is the ***Definite Loop*** pattern and one is the ***Wait-Until-Event*** pattern. Draw arrows from the phrases to the patterns to indicate which is which.

***Wait-Until-Event* pattern** ***Definite Loop* pattern**

```
Run n times:
    ...
    ...
```

```
Repeatedly:
    ...
    Has the event occurred?
    If so, break out of the loop.
    ...
```

3. Explain the role of the "sentinel" value in the *wait-until-event* pattern, when getting input from a user.

4. Write an ***indefinite loop (using a `while` statement)*** that prints the integers 1 through 1000, inclusive. (This problem would be better solved with a ***`for`*** statement, but I am asking you to use a ***`while`*** statement here so that you can practice ***`while`*** statements.)

5. Write an ***indefinite loop (using a `while` statement)*** that prints integers starting at 100,000 and stopping when it encounters an integer whose cosine is less than **`-0.999`**. Do NOT print the integer whose cosine is less than **`-0.999`**.

6. The previous problem asked that you NOT print the integer whose cosine is less than **`-0.999.`** How would you need to modify your answer above if you WERE supposed to print the integer whose cosine is less than **`-0.999`** (but still stop the loop after doing so)?