Flash Quiz 8 Questions CSE 232 (Introduction to Programming II)

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- 1. What is a const_iterator in C++?
 - (a) An iterator that allows modification of the container elements, but not itself
 - (b) An iterator that allows modification of itself, but not the container elements
 - (c) An iterator that allows modification of neither itself, nor the container elements
 - (d) An iterator that allows modification of both itself, and the container elements
- 2. Which of the following is true about iterators?
 - (a) A const container can only have const iterators
 - (b) A non-const container can only have non-const iterators
 - (c) A container being const or non-const has no effect on its iterators
 - (d) (a) and (b)
- 3. Which of the following is not supported in forward iterators?
 - (a) Dereferencing
 - (b) Equality checking
 - (c) Incrementing
 - (d) Decrementing
 - (e) They are all supported
- 4. Which of the following is not supported in bidirectional iterators?
 - (a) Dereferencing
 - (b) Equality checking
 - (c) Incrementing
 - (d) Decrementing
 - (e) They are all supported

- 5. Which of the following is true about const_iterator?
 - (a) The element pointed by const_iterator can be modified
 - (b) const_iterator can be used with
 std::map and std::set
 - (c) const_iterator is the same as const iterator
 - (d) All of the choices are true
 - (e) None of the choices are true
- 6. Which of the following is true about iterators?
 - (a) Forward iterators support all the functionalities as Bidirectional iterators
 - (b) Bidirectional iterators support all the functionalities as random access iterators
 - (c) Bidirectional iterators support all the functionalities as forward iterators
 - (d) Random access iterators support all the functionalities as bidirectional iterators
 - (e) (a) and (b)
 - (f) (c) and (d)
- 7. What is recursion in computer science?
 - (a) A process of defining a loop within a function
 - (b) A process of running multiple functions in sequence
 - (c) A process of running multiple functions in parallel
 - (d) A process of defining a function in terms of itself
 - (e) A process of iterating over a sequence of functions
- 8. Which of the following may cause an infinite recursion?
 - (a) Incorrect for loop
 - (b) Incorrect while loop
 - (c) Incorrect base case
 - (d) Incorrect update for counter variable
 - (e) All of the choices

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9. Given the following function:

```
int func(int n) {
  if (n == 1) {
    return 1;
  } else {
    return n + func(n - 1);
}
```

What is the output of func(3)?

- (a) 1
- (b) 3
- (c) 4
- (d) 5
- (e) 6
- 10. Which of the following should a recursive function have?
 - (a) A loop and a counter
 - (b) A base case and a recursive step
 - (c) Multiple function parameters
 - (d) An iterator
 - (e) All of the choices

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