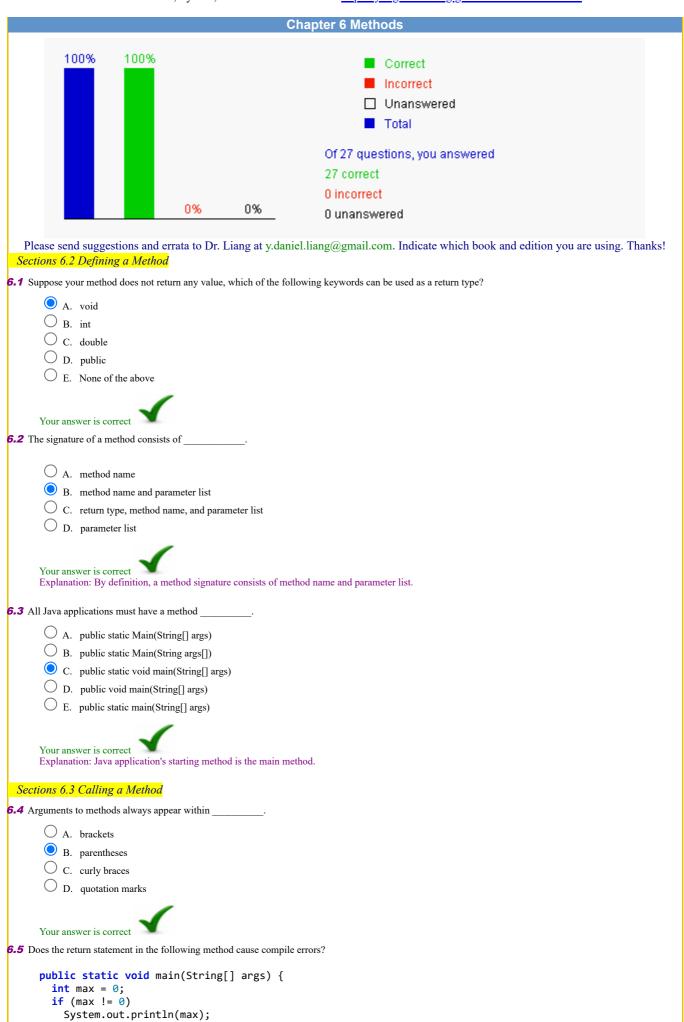
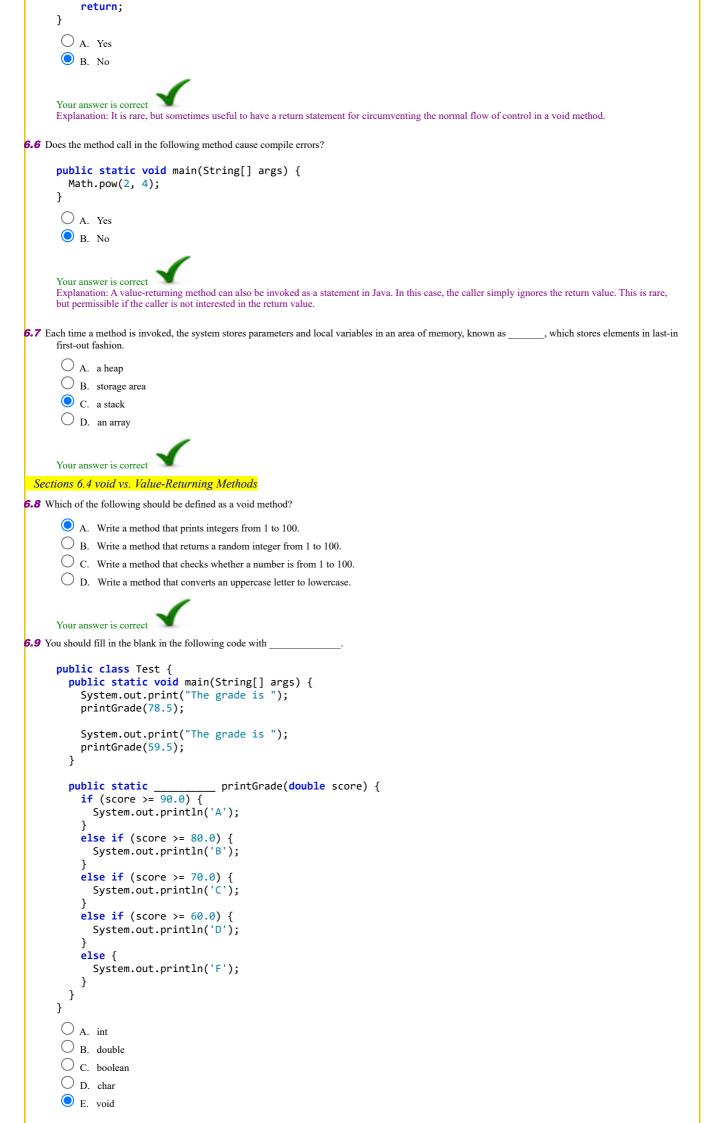
Introduction to Java Programming, Includes Data Structures, Eleventh Edition, Y. Daniel Liang

This quiz is for students to practice. A large number of additional quiz is available for instructors using Quiz Generator from the Instructor's Resource Website.

Videos for Java, Python, and C++ can be found at https://yongdanielliang.github.io/revelvideos.html.





Your answer is correct Explanation: void should here because the method does not return any value.

6.10 You should fill in the blank in the following code with _ public class Test { public static void main(String[] args) {
 System.out.print("The grade is " + getGrade(78.5));
 System.out.print("\nThe grade is " + getGrade(59.5)); public static
 if (score >= 90.0) __getGrade(double score) { return 'A'; else if (score >= 80.0) return 'B'; else if (score >= 70.0) return 'C'; else if (score >= 60.0) return 'D'; else return 'F'; O A. int O B. double C. boolean O. char O E. void Your answer is correct Explanation: char should be placed here because the method returns a character. **6.11** Consider the following incomplete code: public class Test { public static void main(String[] args) { System.out.println(f(5)); public static int f(int number) { // Missing body The missing method body should be _____. A. return "number"; B. System.out.println(number); C. System.out.println("number"); O. return number; Your answer is correct Sections 6.5 Passing Parameters by Values **5.12** When you invoke a method with a parameter, the value of the argument is passed to the parameter. This is referred to as ___ A. method invocation B. pass by value C. pass by reference O D. pass by name Your answer is correct **6.13** Given the following method, what is the output of the call nPrint('a', 4)? static void nPrint(String message, int n) { **while** (n > 0) { System.out.print(message); n--;

O A. aaaaa

```
O B. aaaa
          D. invalid call
      Your answer is correct
      Explanation: Invalid call because char 'a' cannot be passed to string message
6.14 Given the following method
      static void nPrint(String message, int n) {
        while (n > 0) {
          System.out.print(message);
     }
     What is k after invoking nPrint("A message", k)?
     int k = 2;
     nPrint("A message", k);
      O A. 0
       O B. 1
       O C. 2
       O D. 3
      Your answer is correct
 Section 6.8 Overloading Methods
6.15 Analyze the following code:
      public class Test {
        public static void main(String[] args) {
          System.out.println(xMethod(5, 500L));
        public static int xMethod(int n, long 1) {
          System.out.println("int, long");
          return n;
        public static long xMethod(long n, long 1) {
          System.out.println("long, long");
          return n;
     }

    A. The program displays int, long followed by 5.

       B. The program displays long, long followed by 5.
       C. The program runs fine but displays things other than 5.
       O D. The program does not compile because the compiler cannot distinguish which xmethod to invoke.
      Your answer is correct
6.16 Analyze the following code:
      class Test {
        public static void main(String[] args) {
          System.out.println(xmethod(5));
        public static int xmethod(int n, long t) {
          System.out.println("int");
          return n;
        public static long xmethod(long n) {
          System.out.println("long");
          return n;
       A. The program displays int followed by 5.
       B. The program displays long followed by 5.
       C. The program runs fine but displays things other than 5.
```

```
O. The program does not compile because the compiler cannot distinguish which xmethod to invoke.
      Your answer is correct
6.17 Analyze the following code
      public class Test {
         public static void main(String[] args) {
           System.out.println(max(1, 2));
         public static double max(int num1, double num2) {
           System.out.println("max(int, double) is invoked");
           if (num1 > num2)
              return num1;
           else
              return num2;
         public static double max(double num1, int num2) {
           System.out.println("max(double, int) is invoked");
           if (num1 > num2)
             return num1;
           else
              return num2;
       A. The program cannot compile because you cannot have the print statement in a non-void method.
           B. The program cannot compile because the compiler cannot determine which max method should be invoked.
       C. The program runs and prints 2 followed by "max(int, double)" is invoked.
       D. The program runs and prints 2 followed by "max(double, int)" is invoked.
       E. The program runs and prints "max(int, double) is invoked" followed by 2.
      Your answer is correct
      Explanation: This is known as ambiguous method invocation.
6.18 Analyze the following code.
      public class Test {
         public static void main(String[] args) {
           System.out.println(m(2));
         public static int m(int num) {
           return num;
         public static void m(int num) {
           System.out.println(num);

    A. The program has a compile error because the two methods m have the same signature.

       B. The program has a compile error because the second m method is defined, but not invoked in the main method.
       C. The program runs and prints 2 once.
       O. The program runs and prints 2 twice.
      Explanation: You cannot override the methods based on the type returned.
  Section 6.9 The Scope of Variables
6.19 A variable defined inside a method is referred to as
       A. a global variable
       B. a method variable
       C. a block variable
       D. a local variable
      Your answer is correct
6.20 What is k after the following block executes?
        int k = 2;
```

nPrint("A message", k);
System.out.println(k);
O A. 0
O B. 1
O c. 2
D. k is not defined outside the block. So, the program has a compile error
Your answer is correct
Explanation: k is defined inside the block. Outside the block, k is not defined.
Section 6.10 Case Study: Generating Random Characters
6.21 (int)(Math.random() * (65535 + 1)) returns a random number
A. between 1 and 65536
B. between 1 and 65535
© C. between 0 and 65535
D. between 0 and 65536
Your answer is correct
6.22 (int)('a' + Math.random() * ('z' - 'a' + 1)) returns a random number
A. between 0 and (int)'z'
B. between (int)'a' and (int)'z'
C. between 'a' and 'z'
D. between 'a' and 'y'
Your answer is correct
6.23 (char)('a' + Math.random() * ('z' - 'a' + 1)) returns a random character
• A. between 'a' and 'z'
B. between 'a' and 'y'
C. between 'b' and 'z'
D. between 'b' and 'y'
Your answer is correct
6.24 Which of the following is the best for generating random integer 0 or 1?
A. (int)Math.random() B. (int)Math.random() + 1
B. (int)Math.random() + 1 C. (int)(Math.random() + 0.5)
D. (int)(Math.random() + 0.2)
E. (int)(Math.random() + 0.8)
Your answer is correct
Section 6.11 Method Abstraction and Stepwise Refinement
6.25 The client can use a method without knowing how it is implemented. The details of the implementation are encapsulated in the method and hidden from the client who invokes the method. This is known as
A. information hiding
B. encapsulation
C. method hiding
D. simplifying method
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Your answer is correct 6.26 is to implement one method in the structure chart at a time from the top to the bottom.
A. Bottom-up approach
B. Top-down approach C. Bottom-up and top-down approach
C. Bottom-up and top-down approach D. Stepwise refinement
5. Stepwise remiement
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Your answer is correct 6.27 is a simple but incomplete version of a method.
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