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4. None of the above. We have a tie.

```
following code output?
```

```
LocalDate localDate = LocalDate.of(2017, 3, 12);
LocalTime localTime = LocalTime.of(1, 0);
ZoneId zone = ZoneId.of("America/New_York");
ZonedDateTime z = ZonedDateTime.of(localDate, localTime, zone);
Duration duration = Duration.ofHours(3);
ZonedDateTime later = z.plus(duration);
System.out.println(later.getHour());
```

- 1. 4
- 2, 5
- 3. 6
- 4. None of the above
- 6. What does the following output?

```
int year = 1874;
int month = Month.MARCH;
int day = 2;
LocalDate date = LocalDate.of(year, month, day);
System.out.println(date.is8efore(LocalDate.now()));
```

- 1. false
- 2. true
- 3. The code does not compile.
- 4. The code compiles but throws an exception at runtime.
- 7. Which correctly fills in the blank to print 2017-01-15?

- 1. f.format(hatDay)
- 2. f.formatDate(hatDay)
- 3. hatDay.format(f)
- 1. I
- 2. III
- 3. I and III
- 4. II and III
- 8. Which of the answer choices is true given the following?

```
2017-01-07T10:00-07:00[America/Phoenix]
2017-01-07T08:00-08:00[America/Vancouver]
```

- 1. The first date/time is one hour earlier than the second.
- 2. The first date/time is three hours earlier than the second.
- 3. The first date/time is one hour later than the second.
- $4. \ \mbox{The first date/time}$ is three hours later than the second.
- 9. Given that daylight savings time starts on March 12, 2017, at 2 a.m. and clocks jump from 1:59 a.m. to 03:00 a.m., which of the following can fill in the blank so the code doesn't throw an exception?

- 1.2,0
- 2.3,0
- 3. Either of the above will run without throwing an exception.
- 4. Both of these will cause an exception to be thrown.
- 10. What is the result of the following?

```
11: LocalDate waffleDay = LocalDate.of(2017, Month.MARCH, 25);
12: Period period = Period.of(1, 6, 3);
13: LocalDate later = waffleDay.plus(period);
14: Later.plusDays(1);
15: LocalDate thatOne = LocalDate.of(2018, Month.SEPTEMBER, 28);
16: LocalDate thatOne = LocalDate.of(2018, Month.SEPTEMBER, 29);
17: System.out.println(later.isBefore(thisOne) + " "
18: + later.isBefore(thatOne));
  1. false false
 2. false true
 4. The code does not compile.
11. What is a possible result of the following?
             LocalDate montyPythonDay = LocalDate.of(2017, Month.MAY, 10);
LocalDate aprilFools = LocalDate.of(2018, Month.APRIL, 1);
Duration duration = Duration.ofDays(1);
LocalDate result = montyPythonDay.minus(duration);
System.out.println(result + " " + aprilFools.isBefore(result));
   1. 2017-05-09 false
 2.2017-05-09 true
 3. The code does not compile.
  4. None of the above
12. What is the result of running this code?

    12: LocalDate pieDay = LocalDate.of(2017, Month.JANUARY, 23);
    13: LocalTime midnight = LocalTime.of(θ, θ);
    14: LocalDateTime pieTime = LocalDateTime.of(pieDay, midnight);

    16: DateTimeFormatter f = DateTimeFormatter
    17: .ofLocalizedDate(FormatStyle.SHORT);
    18: f.format(pieDay);

             19: f.format(pieTime);
20: f.format(midnight);
   1. The code runs successfully.
  2. The code throws an exception on line 19.
 3. The code throws an exception on line 20.
 4. The code does not compile.
13. In the United States, daylight savings time ends on November 5th,
      2017 at 02:00 a.m. and we repeat the previous hour. What is the
      output of the following?
             import java.time.*;
             public class FallBack {
                  public static void main(String[] args) {
   LocalDate localDate = LocalDate.of(2017, Month.NOVEMBER, 5);
   LocalTime localTime = LocalTime.of(1, 0);
   ZoneId zone = ZoneId.of("America/New, Vork");
   ZonedDateTime z = ZonedDateTime.of(localDate, localTime, zone
                         for (int i = 0; i < 6; i++)
z.plusHours(1);</pre>
                        System.out.println(z.getHour());
  1. 5
 2. 6
 4. None of the above
```

```
14. What format pattern would you pass to a {\tt DateTimeFormatter} so it
   creates hour and minute output such as 02:33?
 1. HH:MM
 3. hh:MM
 4. hh:mm
15. LocalTime.of() has a number of overloads. Which of the following is
    not one of them?
 1. LocalTime.of(int hour, int minute)
 2. LocalTime.of(int hour, int minute, int second)
 3. LocalTime.of(int hour, int minute, int second, int
    nanoOfSecond)
 4. LocalTime.of(int hour, int minute, int second, int
    nanoOfSecond, int picoSeconds)
16. How many of the classes LocalDate, {\tt Period}, and {\tt ZonedDate} have a
   method to get the year?
 1. None
 2. One
 3. Two
 4. Three
17. Which statement is not true about these two variables?
        Duration duration = Duration.ofDays(1);
Period period = Period.ofDays(1);
 1. Both output the same value when calling {\tt toString()}.
 2. The Duration object compiles because durations are for smaller units
 3. The Period object compiles because periods are for larger units of
   time.
 4. None of the above
18. What is a possible output of this code?
        LocalTime time = LocalTime.of(1,2,3,4);
System.out.println(time);
 1.01:02:03.4
 2.01:02:03.000000004
 3.01/01/1970 01:02:03.4
 4.01/01/1970 01:02:03.000000004
19. What does the following print?
       import java.time.*;
import java.time.format.*;
       public class PolarBear {
  public static void main(String[] args) {
    LocalDate polarBearDay = LocalDate.of(2017, 2, 27);
    DateTimeFormatter formatter = DateTimeFormatter.ofFattern("yy:
    System.out.println(polarBearDay.format(formatter));
 1. 2017 27 Jan
 2. 2017 27 Feb
 3. 2017 Jan 27
 4. 2017 Feb 27
```

```
20. Which contains a constant named HOURS?
 1. ChronoUnit
 2. Duration
 3. Instant
 4. Period
21. The United States observes daylight savings time on March 12, 2017,
    by moving the clocks forward an hour at 2 a.m. What does the
    following code output?
        LocalDate localDate = LocalDate.of(2017, 3, 12);
LocalTime localTime = LocalTime.of(13, 0);
ZoneId zone = ZoneId.of("America/New_York");
ZonedDateTime z = ZonedDateTime.of(localDate, localTime, zone);
Duration duration = Duration.ofHours(3);
ZonedDateTime later = z.plus(duration);
System.out.println(later.getHour());
 1. 13
 2. 16
 3. 17
 4. None of the above
22. What is a possible result of the following?
        LocalDate montyPythonDay = LocalDate.of(2017, Month.MAY, 10);
LocalTime time = LocalDate.of(5, 40);
LocalDateTime dateTime = LocalDateTime.of(montyPythonDay, time);
Duration duration = Duration.ofDays(1);
LocalDateTime result = dateTime.minus(duration);
System.out.println(result);
 1. 2017-05-09
 2. 2017-05-09T05:40
 3. 2017-05-10T05:40
 4. None of the above
23. Which correctly fills in the blank to print 2017-01-15?
        1. f.format(hatDate)
 2. hatDay.format(f)
 3. Both of the above
 4. Neither of the above
24. LocalDateTime.of() has a number of overloads. Which of the
    following is not one of them?
 1. LocalDateTime.of(LocalDate date, LocalTime time)
 2. LocalDateTime.of(LocalDate date, int hour, int minute)
 LocalDateTime.of(int year, int month, int day, int hour,
    int minute)
 {\tt 4. LocalDateTime.of(int\ year,\ Month\ month,\ int\ day,\ int}\\
    hour, int minute)
25. In the United States, daylight savings time for 2017 starts at 2 a.m. on
    March 12th and ends at 2 a.m. on November 5th. Given the sequence
    in the following image, what time comes next on March 12th, July 4th,
    and November 5th, respectively?
         1:58
```

1. 01:00, 02:00, 01:00

```
2. 01:00, 02:00, 03:00
  3. 03:00, 02:00, 01:00
   4. 03:00, 02:00, 03:00
 26. What is the output of the following?
           LocalDate date1 = LocalDate.of(2017, Month.MARCH, 3);
LocalDate date2 = LocalDate.of(2017, Month.FEBRUARY, 31);
            System.out.println(date1.equals(date2));
   1. false
  2. true
  3. The code does not compile.
  4. The code compiles but throws an exception at runtime.
 27. Given this date/time and time zone offset, what time is it in GMT?
            2017-03-09T16:00-10:00[US/Hawaii]
   1.02:00
  2.04:00
  3.06:00
   4.10:00
 28. What is a possible output of the following?
           LocalDate trainDay = LocalDate.of(2017, 5, 13);

LocalTime time = LocalTime.of(10, 0);

ZoneId zone = ZoneId.of("America/Los_Angeles");

ZonedDateTime.zdt = ZoneOdateTime.of(trainDay, time, zone);

Instant instant = zdt.toInstant();

instant = instant.plus(1, ChronoUnit.DAYS);

System.out.println(instant);
   1. 2017-05-13T10:00-07:00[America/Los_Angeles]
  2. 2017-05-13T17:00:00Z
  3.2017-05-14T10:00-07:00[America/Los_Angeles]
  4. 2017-05-14T17:00:00Z
 29. What is the output of the following?
           LocalDate date = LocalDate.of(2017, Month.JULY, 17);
LocalTime time = LocalTime.of(10, 0);
ZoneId zone = ZoneId.of("America/New_York");
ZonedDateTime iceCreamDay = ZonedDateTime.of(date, time, zone);
time = time.plusMonths(1);
System.out.println(iceCreamDay.getMonthValue());
  2. 7
  3.8
  4. The code does not compile.
30. What does the following print?
            import java.time.*:
            import java.time.format.*;
           public class PolarBear {
  public static void main(String[] args) {
    LocalDate polarBearDay = LocalDate.of(2017, 2, 27);
    DateTimeFormatter formatter = DateTimeFormatter
    .ofFattern("Holiday: yyyy dd MMM");
    System.out.println(polarBearDay.format(formatter));
}
   1. Holiday: 2017 27 Jan
   2. Holiday: 2017 27 Feb
   3. The code does not compile.
   4. The code compiles but throws an exception at runtime.
```

```
31. Which of these represents the earliest date/time?
 1. 2017-02-15T16:00+07:00[Asia/Bangkok]
 2. 2017-02-15T18:00+04:00[Asia/Dubai]
 3. 2017-02-15T20:00+08:00[Asia/Kuala_Lumpur]
 4. None of the above. We have a tie.
32. What is the result of the following?
         11: LocalDate waffleDay = LocalDate.of(2017, Month.MARCH, 25);
12: Period period = Period.ofYears(1).ofWonths(6).ofDays(3);
13: LocalDate later = waffleDay.plus(period);
14: later.plusDays(1); 15: LocalDate thisOne = LocalDate.of(2018, 16: LocalDate thatOne = LocalDate.of(2018, Month.SEPTEMBER, 29);
17: System.out.println(later.isBefore(thisOne) + " "
                    + later.isBefore(thatOne));
 1. false false
 2. false true
 3. true true
 4. The code does not compile.
33. How many of the following can fill in the blank so this code compiles
     and prints 31?
          LocalDate xmas = LocalDate.of(2017, 12, 25);
LocalDate blackFriday = LocalDate.of(2017, 11, 24);
long shoppingDaysLeft =_______;
          System.out.println(shoppingDaysLeft);
 1. blackFriday.until(xmas, ChronoUnit.DAYS)
 2. blackFriday.until(xmas, TemporalUnit.DAYS)
 ChronoUnit.DAYS.between(blackFriday, xmas)
 4. TemporalUnit.DAYS.between(blackFriday, xmas)
 1. One
 3. Three
 4. Four
34. How many of these classes cause a compiler error when filling in the
     blank: LocalDate, LocalDateTime, LocalTime, ZonedDateTime?
         private static String formatMe(_____ obj) {
   DateTimeFormatter f = DateTimeFormatter.ofLocalizedTime(FormatSt)
              return f.format(obj);
 1. None
 2. One
 3. Two
 4. Three
35. What is the output of the following?
         LocalDate date = LocalDate.of(2017, Month.JULY, 17);
LocalTime time = LocalTime.of(10, 0);
ZoneId zone = ZoneId.of("America/New_York");
ZonedDateTime iceCreamDay = ZonedDateTime.of(date, time, zone);
date = date.plusMonths(1);
System.out.println(iceCreamDay.getMonthValue());
 1. 6
 2. 7
 4. The code does not compile.
```

36. Which of the following can fill in the blank to make this code compile?

```
public boolean isItMyBirthday(LocalDateTime dateTime) {
          return now.getMonth() == dateTime.getMonth()
             && now.getDayOfMonth() == dateTime.getDayOfMonth();
 1. LocalDate now = LocalDate.now();
 2. LocalDate now = new LocalDate();
 3. ZonedDate now = ZonedDate.now();
 4. ZonedDate now = new ZonedDate();
37. What is the output of the following?
       LocalDate date1 = LocalDate.of(2017, Month.MARCH, 3);
       LocalDate date2 = date1.plusDays(2).minusDays(1).minusDays(1);
System.out.println(date1.equals(date2));
 1. false
 3. The code does not compile.
 4. The code compiles but throws an exception at runtime.
38. What is a possible output of the following?
       LocalDate date = LocalDate.of(2017, 5, 13);
       CocalTime time = LocalTime.of(18, 0);

LocalDateTime trainDay = LocalDateTime.of(date, time);

LocalDateTime trainDay = LocalDateTime.of(date, time);

Instant instant = trainDay.toInstant();

instant = instant.plus(1, ChronoUnit.DAYS);
       System.out.println(instant);
 1. 2017-05-14T10:00-07:00[America/Los_Angeles]
 2. 2017-05-14T17:00:00Z
 3. The code does not compile.
 4. The code compiles but throws an exception at runtime.
39. What is the result of the following?
      1. 3.140159
 2.59.140103
 3. The code does not compile.
 4. The code compiles but throws an exception at runtime.
40. Daylight savings time ends on November 5, 2017 at 2 a.m. when we
   repeat the hour. Suppose we have a {\tt ZonedDateTime} that outputs
   2017-11-05T01:00-04:00[America/ New_York] when calling
   toString(). What is a possible value of the ZonedDateTime obtained
   by adding an hour to this value?
 1. 2017-11-05T01:00-04:00[America/New_York]
 2. 2017-11-05T02:00-04:00[America/New_York]
 3. 2017-11-05T01:00-05:00[America/New_York]
 4.2017-11-05T02:00-05:00[America/New_York]
```





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