# BABEŞ-BOLYAI UNIVERSITY FACULTY OF MATHEMATICS AND COMPUTER SCIENCE

#### Admission Exam – July 19 2022 Written Exam for Computer Science

#### IMPORTANT NOTE:

Unless further clarification is provided, assume that arithmetical operations are performed over boundless data types (no *overflow / underflow*).

Furthermore, arrays and vectors are indexed starting from 1.

**1.** Let us consider the algorithm ceFace(a, b), where a and b are natural numbers ( $1 \le a, b \le 10000$  at the initial call).

```
Algorithm ceFace(a, b):

While (a MOD 10 = b MOD 10) AND (a ≠ 0) AND (b ≠ 0) execute

a ← a DIV 10

b ← b DIV 10

EndWhile

If ((a = 0) AND (b = 0)) then

return True

else

return False
EndIf
EndAlgorithm
```

The algorithm ceFace(a, b) returns *True* if and only if:

- A. a and b have the same number of digits
- B.  $\boldsymbol{a}$  and  $\boldsymbol{b}$  are equal
- C. a and b are written using the same digits, but in different sequence
- D. the last digit of a is equal with the last digit of b
- **2.** Let us consider the algorithm f(a, n) where n is a natural number  $(2 \le n \le 10000)$  and a is an array of n natural numbers  $(a[1], a[2], ..., a[n], -100 \le a[i] \le 100$ , for i = 1, 2, ..., n). The local variable b is an array.

```
Algorithm f(a, n):
    i ← 2
    b[1] ← a[1]
    While i ≤ n execute
        b[i] ← b[i - 1] + a[i]
        i ← i + 1
    EndWhile
    return b[n]
EndAlgorithm
```

Which of the following statements are true?

- A. The algorithm returns the sum of all elements of array a.
- B. The algorithm returns the sum of the last two elements of array a.
- C. The algorithm returns the last element of array a.
- D. The algorithm returns the sum of the last n-1 elements of array a.

**3.** Which of the following algorithms returns the number of distinct prime factors of a given natural number n ( $5 < n < 10^5$  at the initial call).

```
B.
     // The length of array prime is n
                                                              Algorithm nrFactoriPrimi B(n):
     // prime[i] is True, if
                                                                  d ← 2
     // the number i is prime and False
                                                                  nr ← 0
     // otherwise
                                                                  While n > 1 execute
     Algorithm nrFactoriPrimi_A(n, prime):
                                                                       p ← 0
         d ← 2
                                                                       While n MOD d = 0 execute
         nr ← 0
                                                                           p \leftarrow p + 1
         p ← 0
                                                                           n ← n DIV d
         While n > 0 execute
                                                                       EndWhile
              While n MOD d = 0 execute
                                                                       If p > 0 then
                  p \leftarrow p + 1
                                                                           nr \leftarrow nr + 1
                  n ← n DIV d
                                                                       EndIf
              EndWhile
                                                                       If d = 2 then
              If p \neq 0 then
                                                                           d \leftarrow d + 1
                  nr \leftarrow nr + 1
                                                                       else
              EndIf
                                                                           d \leftarrow d + 2
              d \leftarrow d + 1
                                                                       EndIf
              While prime[d] = False execute
                                                                   EndWhile
                  d \leftarrow d + 1
                                                                   return nr
              EndWhile
                                                              EndAlgorithm
              p ← 0
                                                         D.
         EndWhile
                                                              Algorithm nrFactoriPrimi_D(n):
         return nr
                                                                  nr ← 0
     EndAlgorithm
                                                                  d ← 2
C.
                                                                  While d * d \le n execute
     Algorithm nrFactoriPrimi_C(n):
                                                                       If n MOD d = 0 then
         nr ← 0
                                                                           nr \leftarrow nr + 1
                                                                       EndIf
         For d \leftarrow 2, n execute
              If n MOD d = 0 then
                                                                       While n MOD d = 0 execute
                   nr \leftarrow nr + 1
                                                                           n ← n DIV d
              EndIf
                                                                       EndWhile
              While n MOD d = 0 execute
                                                                       d \leftarrow d + 1
                   n ← n DIV d
                                                                   EndWhile
              EndWhile
                                                                   return nr
         EndFor
                                                              EndAlgorithm
         return nr
     EndAlgorithm
```

**4.** Let us consider the algorithm ceFace(n, m), where n is a natural number ( $0 \le n \le 1000$ ) with the last digit not equal to 0.

```
Algorithm ceFace(n, m):
    If n = 0 then
        return m
    else
        return ceFace(n DIV 10, m * 10 + n MOD 10)
    EndIf
EndAlgorithm
```

What is the result of the call ceFace(n, 0)?

- A. 0 (regardless of the value of n)
- B. n (regardless of the value of n)
- C. The sum of the digits of n
- D. The reverse of number n

5. Let us consider the algorithm f(x, n) where n is a natural number  $(2 \le n \le 10000)$ , and x is an array of n natural numbers  $(x[1], x[2], ..., x[n], 1 \le x[i] \le 10000$ , for i = 1, 2, ..., n).

```
Algorithm f(x, n):
    For i = 1, n - 1 execute
        If x[i] = x[i + 1] then
            return False
        EndIf
    EndFor
    return True
EndAlgorithm
```

Which of the following statements are true?

- A. The algorithm returns False if two random elements of the array x are distinct.
- B. The algorithm returns False if two random elements of the array x are equal.
- C. The algorithm returns False if two consecutive elements of the array x are equal.
- D. The algorithm returns False if the first two elements of the array x are equal.
- **6.** Let us consider the algorithm f(x, n) where x and n are natural numbers  $(0 \le n \le 10000, 0 \le x \le 10000)$ .

```
1. Algorithm f(x, n):
2.
        If n = 0 then
3.
             return 1
4.
        EndIf
        m \leftarrow n DIV 2
5.
        p \leftarrow f(x, m)
6.
        If n \text{ MOD } 2 = 0 \text{ then}
7.
8.
             return p * p
9.
        EndIf
10.
        return x * p * p
11.EndAlgorithm
```

Which of the following statements are true?

- A. The algorithm returns x at the power of n.
- B. If on line 7, we replace n MOD 2 with m MOD 2, then the algorithm returns x at the power of n.
- C. Because of the recursive call on line 6, the lines 7, 8, 9, 10 will never be executed.
- D. The algorithm returns 1 if n is an even number or it returns x if n is an odd number.
- **7.** Considering that all multiplications and divisions require a constant amount of time, what can be stated about the time complexity of the algorithm considered in problem statement **6**?
  - A. The time complexity depends on parameters x and n.
  - B. The time complexity does not depend on the parameter x.
  - C. The time complexity is  $O(\log \log n)$ .
  - D. The time complexity is logarithmic based on the parameter n (O(log n)).
- **8.** Let us consider the algorithm afişare(n), where n is a natural number  $(1 \le n \le 10000)$ .

```
Algorithm afişare(n):

If n ≤ 4000 then

Write n, " "

afişare(2 * n)

Write n, " "

EndIf

EndAlgorithm
```

What will be displayed for the call afişare(1000)?

- A. 1000 2000 4000
- B. 1000 2000 4000 4000 2000 1000
- C. 1000 2000 4000 2000 1000
- D. 1000 2000 2000 1000
- **9.** Which could be the values of an array so that, applying the binary search method for value 36, it will be successively compared with values 12, 24, 36:

```
A. [2, 4, 7, 12, 24, 36, 50]
B. [2, 4, 8, 9, 12, 16, 20, 24, 36, 67]
C. [4, 8, 9, 12, 16, 24, 36]
D. [12, 24, 36, 42, 54, 66]
```

10. Which of the following mathematical expressions are equivalent to x MOD y for all strictly positive natural numbers x and y (0 < x,  $y \le 10000$ )?

```
A. x DIV y
B. x - (y * (x DIV y))
C. x - (x * (x DIV y))
D. x DIV y + y DIV x
```

11. Let us consider variable n that stores a natural number. Which of the following expressions is *True* if and only if n is divisible by 2 and by 3?

```
A. (n DIV 2 = 0) OR (n DIV 3 \neq 0) B. (n MOD 3 = 2) OR (n MOD 2 = 3) C. (n MOD 2 \neq 1) AND (n MOD 3 = 0) D. (n MOD 2 = 0) AND (n MOD 3 \neq 1)
```

12. Let us consider variable n that stores a natural number. Which of the following expressions is *True* if and only if n is divisible by 2 and by 3?

```
A. (n MOD 2) - (n MOD 3) = 0 
B. (n MOD 2) - (n MOD 3) < 0 
C. (n MOD 2) + (n MOD 3) > 0 
D. (n MOD 2) + (n MOD 3) = 0
```

13. Let us consider the algorithm f(n), where n is a natural number  $(1 \le n \le 100)$ . The operator "/" stands for real division (ex. 3 / 2 = 1.5). State the effect of the algorithm.

```
Algorithm f(n):
    s ← 0; p ← 1;
    For i ← 1, n execute
        s ← s + i
        p ← p * (1 / s)
    EndFor
    return p
EndAlgorithm
```

- A. Evaluates the expression 1/1 \* 1/2 \* 1/3 \* ... \* 1/n
- B. Evaluates the expression 1/1 \* 1/(1\*2) \* 1/(1\*2\*3) \* ... \* 1/(1\*2\*3\*...\*n)
- C. Evaluates the expression 1/1 \* 1/(1+2) \* 1/(1+2+3) \* ... \* 1/(1+2+3+...+n)
- D. Evaluates the expression 1/1 + 1/(1\*2) + 1/(1\*2\*3) + ... + 1/(1\*2\*3\*...\*n

**14.** Let us consider the algorithm prelucrare(s1, lung1, s2, lung2), where s1 and s2 are two arrays of characters of length lung1, respectively lung2 ( $1 \le lung1$ ,  $lung2 \le 1000$ ). The two strings contain only characters having ASCII codes in the interval [1, 125]. The local variable x is an array. Let us consider the algorithm ascii(s, i), which returns the ASCII code of the i-th character of array s.

```
Algorithm prelucrare(s1, lung1, s2, lung2):
    For i = 1, 125 execute
        x[i] \leftarrow 0
    EndFor
    For i = 1, lung1 execute
        x[ascii(s1, i)] \leftarrow x[ascii(s1, i)] + 1
    For i = 1, lung2 execute
         x[ascii(s2, i)] \leftarrow x[ascii(s2, i)] - 1
    ok ← True
    For i = 1, 125 execute
        If x[i] \neq 0 then
             ok ← False
         EndIf
    EndFor
    return ok
EndAlgorithm
```

What is the result of the algorithm?

- A. The algorithm returns *True* if the arrays of characters *s***1** and *s***2** have the same length and *False* otherwise.
- B. The algorithm returns *True* if the arrays of characters *s*1 and *s*2 contain the same characters having the same corresponding frequency and *False* otherwise.
- C. The algorithm returns *True* if in both arrays of characters *s***1** and *s***2** all characters having ASCII codes in the interval [1, 125] appear and *False* otherwise.
- D. The algorithm returns *True* if the two arrays of characters *s***1** and *s***2** use different characters and *False* otherwise.
- **15.** What is the result of converting the binary number 100101100111 into base 10?

A. 2407

B. 2408

C. 1203

D. None of the answers A., B., C.

**16.** Let us consider an array a of n natural numbers (a[1], a[2], ..., a[n]), the natural number n  $(1 \le n \le 10000)$  and a natural number x. Which of the following code sequences display the position having the minimal index where the value x is situated in the array a, or displays -1 if x is not found in a?

```
A.
                                                     B.
    While (i \le n) AND (a[i] = x) execute
                                                         While (i \le n) AND (a[i] \ne x) execute
         i \leftarrow i + 1
                                                              i \leftarrow i + 1
    EndWhile
                                                         EndWhile
    If i ≤ n then
                                                         If i = n + 1 then
        Write i
                                                              Write i
    else
         Write -1
                                                              Write -1
    EndIf
                                                         EndIf
C.
                                                     D.
                                                         i ← 1
    While (i \le n) AND (a[i] = x) execute
                                                         While (i \le n) AND (a[i] \ne x) execute
         i \leftarrow i + 1
                                                              i \leftarrow i + 1
    EndWhile
                                                         EndWhile
    If i = n + 1 then
                                                         If i \le n then
         Write i
                                                              Write i
    else
                                                         else
         Write -1
                                                              Write -1
    EndIf
                                                         EndIf
```

17. Let us consider the algorithm f(x), where x is an integer:

```
Algorithm f(x):
    If x = 0 then
        return 0
    else
        If x MOD 3 = 0 then
            return f(x DIV 10) + 1
        else
            return f(x DIV 10)
        EndIf
EndIf
EndAlgorithm
```

For which value of x does the algorithm return the value 4?

A. 13369

B. 21369

C. 4

D. 1233

**18.** Let us consider the algorithm f(n, i, j) where n, i and j are natural numbers  $(1 \le n, i, j \le 10000$  at the initial call).

```
Algorithm f(n, i, j):
    If i > j then
        Write '*'
    else
         If n \text{ MOD } i = 0 \text{ then}
             f(n, i - 1, j)
         else
             If n DIV i ≠ j then
                  f(n, i + 1, j - 1)
                  Write '0'
                  f(n, i + 2, j - 2)
                  Write '#'
             EndIf
         EndIf
    EndIf
EndAlgorithm
```

What will be displayed upon the execution of the call f(15, 3, 10)?

- A. \*000000
- B. \*0#000
- C. \*0#0000
- D. \*0000000

**19.** Let us consider algorithm ceFace(n, x), where n is a natural number  $(1 \le n \le 100)$  and x is an array of n natural numbers (x[1], x[2], ..., x[n]).

What will be the new content of array x after executing the algorithm if n = 6 and x = [5, 3, 2, 1, 1, 1]?

- A. [1, 1, 2, 1, 3, 5] B. [1, 1, 1, 2, 3, 5] C. [5, 3, 2, 1, 1, 1]
- D. None of the other options is correct.

**20.** Let us consider the algorithm what(n), where n is a natural number  $(1 \le n \le 1000)$  at the initial call).

```
Algorithm what(n):
    If n = 0 then
        return True
EndIf
    If (n MOD 10 = 3) OR (n MOD 10 = 7) then
        return what(n DIV 10)
    else
        return False
EndIf
EndAlgorithm
```

Which of the following statements are true?

- A. The algorithm returns *True* if and only if either *n* can be written using only the digit 3, or *n* can be written using only the digit 7
- B. The algorithm returns False if n contains at least an even digit
- C. The algorithm returns *False* if and only if **n** contains at least one digit **c** where  $c \neq 3$  and  $c \neq 7$
- D. The algorithm returns True if and only if n does not contain any digit from the set  $\{0, 1, 2, 4, 5, 6, 8, 9\}$
- **21.** Let us consider the algorithm calcul(x, n), where x and n are natural numbers ( $1 \le x \le 10000$ ,  $1 \le n \le 10000$ ), and  $x \le n$ .

```
Algorithm calcul(x, n):
    b ← 1
    For i ← 1, n - x execute
        b ← b * i
    EndFor
    a ← b
    For i ← n - x + 1, n execute
        a ← a * i
    EndFor
    return a DIV b
EndAlgorithm
```

Which of the following statements are true?

- A. If x = 2 and n = 5, then the algorithm returns 10.
- B. The algorithm returns the number of subsets having x elements from the set  $\{1, 2, ..., n\}$ .
- C. The algorithm returns the number of partial permutations of n elements taken x at a time.
- D. The algorithm returns the number of combinations of n elements taken x at a time.
- 22. At a farm there are chickens and rabbits, each chicken has two legs and each rabbit has four legs. The total number of heads is n and the total number of legs is m ( $0 \le n$ ,  $m \le 10^4$ ). Which of the following algorithms returns *True* and displays all possible pairs of numbers of chickens and rabbits at the farm, or returns *False* if there are no solutions?

```
B.
Algorithm ferma A(n, m):
                                               Algorithm ferma B(n, m):
    found = False
                                                   found ← False
    For i \leftarrow 0, n execute
                                                    For i \leftarrow 0, n execute
        j ← n - i
                                                        For j \leftarrow 0, n execute
        If 2 * i + 4 * j = m then
                                                            If 2 * i + 4 * j = m AND
             found ← True
                                                                               i + j = n then
             Write i, ' ', j
                                                                 found ← True
                                                                 Write i, ' ', j
             Write newline
                                                                 Write newline
    EndFor
                                                            FndTf
    return found
                                                        EndFor
                                                   EndFor
EndAlgorithm
                                                    return found
                                               EndAlgorithm
                                           D.
C.
                                               Algorithm ferma_D(n, m):
Algorithm ferma C(n, m):
    found ← False
                                                    found ← False
    For i ← 0, n execute
                                                    For i ← 0, n execute
                                                        For j \leftarrow 0, i execute
        For j \leftarrow 0, n - i execute
             If 2 * i + 4 * j = m \text{ AND}
                                                            If 2 * i + 4 * j = m AND
                         i + j = n then
                                                                               i + j = n then
                                                                 found ← True
                 found ← True
                 Write i, ' ', j
                                                                 Write i, ' ', j
                                                                 Write newline
                 Write newline
             EndIf
                                                            EndIf
        EndFor
                                                        EndFor
    EndFor
                                                    EndFor
    return found
                                                    return found
EndAlgorithm
                                               EndAlgorithm
```

23. Let us consider a natural number n, which can be written as the product of three natural numbers a, b, c, (n = a \* b \* c). Which of the following expressions has as result the remainder of the division of n by the natural number d  $(1 \le n, a, b, c, d \le 10000)$ ?

```
A. (a MOD d) * b * c 
B. ((a MOD d) * (b MOD d) * (c MOD d)) MOD d 
C. (a MOD d) * (b MOD d) * (c MOD d) 
D. (a DIV d) * (b DIV d) * (c DIV d)
```

A.

**24.** Let us consider the algorithm det(a, n, m), where a is an array of n natural numbers (a[1], a[2], ..., a[n]) if  $n \ge 1$  or an empty array if n = 0. n and m are natural numbers  $(0 \le n \le 100, 0 \le m \le 10^6)$ .

```
1. Algorithm det(a, n, m):
2.
         For i \leftarrow 1, n - 1 execute
3.
               For j \leftarrow i + 1, n execute
4.
                    If a[i] > a[j] then
                         \mathsf{tmp} \, \leftarrow \, \mathsf{a[i]}
6.
                         a[i] \leftarrow a[j]
                         a[j] \leftarrow tmp
7.
8.
                    EndIf
9.
               EndFor
         EndFor
10.
11.
         i ← 1
12.
         j ← n
         b ← False
13.
14
         While i < j execute
15.
               If a[i] + a[j] = m then
16.
                   b ← True
               EndIf
17.
```

Which of the following statements are true?

- A. The algorithm returns True if array a contains a pair of numbers having their sum equal to m.
- B. The algorithm always returns False.
- C. The algorithm returns False if n = 0.
- D. Lines 2, ..., 10 of the algorithm sort array *a* in ascending order.
- **25.** Let us consider the algorithm magic(n, a), where a is an array of n natural numbers (a[1], a[2], ..., a[n],  $1 \le n \le 10000$ ).

```
Algorithm magic(n, a):

If n < 2 then
return False
EndIf
For i ← 2, n execute
If a[i - 1] = a[i] then
return True
EndIf
EndFor
return False
EndAlgorithm
```

Which of the following statements are true?

- A. For magic(5, [2, 5, 4, 5, 4]) the algorithm returns *False*.
- B. The algorithm indicates if there are duplicates in the array a, if and only if array a is sorted ascending/descending.
- C. For magic(9, [1, 2, 3, 4, 4, 5, 6, 7, 9]) the algorithm returns *True*.
- D. For magic (5, [9, 5, 5, 2, 4]) the algorithm returns *True*.
- **26.** Let us consider the algorithm f(n, a, b, c) where n is a natural number  $(n \le 20)$  and a, b, c three integer numbers.

```
Algorithm f(n, a, b, c):
    If n = 0 then
        return 1
    else
        return f(n - 1, a * a, b + 1, c * 2) + f(n - 1, a - 1, b * b, c + 1) + 1
    EndIf
EndAlgorithm
```

What is the return value of the call f(n, 1, 1, 2)?

```
A. 2^{n+1} - 1
B. n
C. 2^0 + 2^1 + 2^2 + ... + 2^n
D. 2^{n+1}
```

**27.** Let us consider the algorithms f(n, p) and g(n), where n and p are initially natural numbers  $(1 \le n, p \le 10^6)$  at the initial call).

```
Algorithm g(n):
                                                   Algorithm f(n, p):
    If n < 2 then
                                                        If n = 0 then
        return False
                                                            return 1
    EndIf
                                                        EndIf
                                                        If n > 0 AND n \ge p then
    i ← 2
    While i * i ≤ n execute
                                                            c ← 0
                                                            If g(p) = True then
        If n \text{ MOD } i = 0 \text{ then}
             return False
                                                                c \leftarrow c + f(n - p, p + 1)
                                                            EndIf
         EndIf
         i \leftarrow i + 1
                                                            return c + f(n, p + 1)
    EndWhile
                                                        EndIf
    return True
                                                        return 0
EndAlgorithm
                                                    EndAlgorithm
```

Which of the following statements are true?

- A. The algorithm g(n) returns *True* if n is prime and *False* otherwise.
- B. The call f(n, 2) returns the number of distinct ways of writing n as a sum of at least one term of distinct prime numbers in strictly ascending order.
- C. The call f(n, 2) returns the sum of the prime divisors of n.
- D. The calls f(n, 1) and f(n, 2) will return the same result, regardless of n.
- **28.** Let us consider the algorithm AlexB(value, n, k, p), where *value* is an array of n natural numbers (value[1], value[2], ..., value[n]), and n, k and p are natural numbers. Initially the array value has n elements equal to zero. The algorithm afişare(value, n) displays the array value on a single line.

```
Algorithm AlexB(value, n, k, p):
                                              What will be displayed on the 10th line, if n = 5
    p \leftarrow p + 1
                                              and the algorithm is called like: AlexB(value, 5,
    value[k] \leftarrow p
                                              1, 0).
    If p = n then
         afișare(value, n)
                                                  A. 15234
    else
                                                  B. 15404
        For i \leftarrow 1, n execute
                                                  C. 55555
             If value[i] = 0 then
                                                 D. 12543
                 AlexB(value, n, i, p)
             EndIf
        EndFor
    EndIf
    p ← p - 1
    value[k] \leftarrow 0
EndAlgorithm
```

**29.** Let us consider the algorithm f(n) where n is a natural number  $(1 \le n \le 10000)$  at the initial call).

The & operator is the bitwise AND operator; the truth table is:

|   |   |   | Example:  |  |  |
|---|---|---|---|--|--|
| & | 0 | 1 | 2 & 7 in binary: 010 & 111 = 010 which is 2 in base 1 |  |  |
| 0 | 0 | 0 | 6 & 1 in binary: 110 & 001 = 000 which is 0 in base 1 |  |  |
| 1 | 0 | 1 | o & 1 in binary. 110 & 001 = 000 which is 0 in base 1 |  |  |

Which of the following statements are **NOT** true?

- A. If n is a power of 2, then f(n) returns value 1.
- B. If n > 16 and n < 32, then f(n) returns a value from the  $\{2, 3, 4, 5\}$  set.
- C. The algorithm returns the number of even numbers strictly smaller than n.
- D. The algorithm returns the number of odd numbers smaller than n.

**30.** Let us consider algorithm calcul(v, n), where n is a non zero natural number  $(1 \le n \le 10000)$  and v is an array of n integer numbers (v[1], v[2], ..., v[n]). The instruction return x, y returns the pair of values (x, y).

```
Algorithm calcul(v, n):
    i \leftarrow n DIV 2 + 1
    j \leftarrow i + 1
    k \leftarrow i
    p ← j
    While j ≤ n execute
         While (j \le n) AND (v[i] = v[j]) execute
              j ← j + 1
         EndWhile
         If j - i > p - k then
              k \leftarrow i
              p ← j
         EndIf
         i ← j
         j ← j + 1
    EndWhile
    If j - i > p - k then
         k \leftarrow i
         p ← j
    EndIf
    return p - k, k
EndAlgorithm
```

Which of the following statements are true?

- A. If the array contains only one element, the algorithm returns 0, -1
- B. If n = 2 and the array's two elements are symmetric with respect to 0 (for example -5, 5), the result will be -1, 1
- C. If n = 2 and the array's two elements have consecutive values (for example 3, 4), the algorithm will always return the values 1, 2
- D. One of the numbers returned by the algorithm represents the length of the longest sequence containing equal values from the second half of the array for any even number n > 1

### BABEŞ-BOLYAI UNIVERSITY

### FACULTY OF MATHEMATICS AND COMPUTER SCIENCE

# Admission Exam – July 19th, 2022

# Written Exam for Computer Science

### **GRADING AND SOLUTIONS**

#### **DEFAULT**: 10 points

| 1  | В       | 3 points |
|----|---------|----------|
| 2  | Α       | 3 points |
| 3  | В, С    | 3 points |
| 4  | D       | 3 points |
| 5  | C, D    | 3 points |
| 6  | Α       | 3 points |
| 7  | B, D    | 3 points |
| 8  | В       | 3 points |
| 9  | В, С    | 3 points |
| 10 | В       | 3 points |
| 11 | С       | 3 points |
| 12 | D       | 3 points |
| 13 | С       | 3 points |
| 14 | В       | 3 points |
| 15 | Α       | 3 points |
| 16 | D       | 3 points |
| 17 | В       | 3 points |
| 18 | В       | 3 points |
| 19 | С       | 3 points |
| 20 | B, C, D | 3 points |
| 21 | С       | 3 points |
| 22 | A, B, C | 3 points |
| 23 | В       | 3 points |
| 24 | A, C, D | 3 points |
| 25 | A, C, D | 3 points |
| 26 | A, C    | 3 points |
| 27 | A, B, D | 3 points |
| 28 | Α       | 3 points |
| 29 | C, D    | 3 points |
| 30 | C, D    | 3 points |
|    |         |          |