```
Question 1 of 20
The program:
#include <stdio.h>
void main() {
       for(int i = 1; i < 4; i++) {
              static int j = 1; int k = 1;
              printf("\n i-%d j-%d k-%d", i, j, k);
              j++; k++;
       }
}
displays:
    A. 111
       221
       3 3 1
   B. 111
       211
       3 1 1
   C. 111
       222
       333
   D. 111
       212
       3 1 3
   E. Other combination of values
Question 2 of 20
Which of the following elements isn't part of the "strong name" concept:
    A. Version number
   B. Culture with which it is associated
   C. Public key
   D. Digital signature
   E. Security policy
Question 3 of 20
Specify what displays the program below:
#include <stdio.h>
void main() {
  int *aux = new int, i, **tabela = new int*[3];
  for(i = 0; i < 3; i++) {
     *aux = i;
    tabela[i] = aux;
```

}

}

for(i = 0; i < 3; i++) {

printf("%d", *tabela[i]);

```
A. 123
B. 012
C. 222
D. 111
E. 333

Question 4 of 20
#include <stdio.h>
void main() {
  int x = 7, y = 8, &ri = x;
  printf("\n %d ", ri);
  ri = y;
  y = 10;
  printf("\n %d ", ri);
}
```

}

The sequence above:

- A. Is wrong, assignment ri = y; is not permitted;
- B. Displays 7 10, because ri is referring now y;
- C. Displays 7 8, because a reference can't be changed, only be referred as variable;
- D. Is wrong, a reference can't be displayed;
- E. Displays 10 10, the last reference initialization is that retained by the compiler

Question 5 of 20

An attack that only allows the attacker to inhibit a service, without gaining anything else, is known as:

A. Denial of Service (DoS)

- B. Service Linking
- C. Watermarking
- D. Obfuscation
- E. Machine "owning"

Question 6 of 20

What is the best way to secure and reduce as size the programs, based on dynamic link libraries programs (DLLs)?

- A. RSA Encryption
- B. Assembly Linking
- C. Watermarking
- D. Library Bypass Obfuscation
- E. Fingerprinting

Question 7 of 20

The program becomes easier decompiled, because Visual C#.NET is compiled firstly into an intermediate language?

A. No, because the intermediate language is more difficult to understand by an attacker

- B. Yes, because restoring the programming structures is much easier
- C. No, because the intermediate language is platform dependent running
- D. Yes, because the intermediate language allows running on a virtual machine

E. C#.NET language is scripting type and is not compiled, but is interpreted

Question 8 of 20

Obfuscators alter the source code and make safer programs, but cannot be debugged.

- A. Yes, because it cannot restore the original context of the program
- B. No, because obfuscators change the source code, but keep some original information too;
- C. Yes, because searching in tables of association is no longer possible
- D. Obfuscated programs cannot be repaired
- E. Obfuscation doesn't make safer programs

```
Question 9 of 20
#include <iostream.h>
class dst {
public:
  int x;
};
class srs {
private:
  int x;
public:
  srs(int a): x(a){}
  operator dst() {
     dst d;
     d.x = x;
     return d;
  }
};
void main() {
  srs s(1);
  dst d = (dst)s;
  cout << d.x;
}
```

What statement concerning the security of the program is true:

- A. Bad casting gives access to private data
- B. Object oriented programming is always secure
- C. Casting from srs to dst is not permitted
- D. Operator overloading is always secure
- E. There is no operator << overloading, but it is called

Question 10 of 20

Reducing the risk of an attack on a program "managed code" is done by:

- A. Insertion of additional validations
- B. Use of exceptions mechanism
- C. The use of privileged accounts
- D. Running under a virtual machine or using code obfuscation
- E. Impersonation

```
Question 11 of 20
#include <stdio.h>
void main() {
  char *pt = "01234567890";
  puts(pt + 2);
  getchar();
Displays:
   A. 1234567892
   B. 01234567892
   C. 23456789
   D. 234567890
   E. 123456789
Question 12 of 20
namespace RaceConditions_Thread
{
      class ProcessData
      {
             int result=0;
             public void Process()
             {
                    Thread worker1=new Thread(Work1),
                           worker2=new Thread(Work2);
                           worker1.Start();
                           worker2.Start();
                           Console.Writeline(result);
             void Work1(){result=1;}
             void Work2(){result=2;}
             public static void Main(string[] args){
                    ProcessData p=new ProcessData();
                    p.Process();Console.Read();
             }
      }
}
Displays:
   A. 0, initialization value for result
   B. 1, first thread assigned the result
   C. 2, last thread assigned the result
   D. 0, 1, 2 depending of running context (threads scheduling)
```

E. A residual value

```
Question 13 of 20
#include <stdio.h>
#include <string.h>
void main() {
       int count;
       printf("1234567890123456%n7890", &count);
       printf("\n %d", count);
       getchar();
printf("\n %d", count);
displays:
   A. 20
   B. The address of count variable
   C. 16
   D. 1
   E. Other value
Question 14 of 20
#include <stdio.h>
void main() {
       char buf[] = "%p %p %p %p %p %p %p %p";
       printf(buf);
       getchar();
}
```

The sequence above:

- A. Is wrong, because the printf call doesn't get the formatting information
- B. Is wrong because the printf call doesn't get the variables for displaying
- C. Displays variables or addresses located on the stack
- D. Displays the variables or addresses from heap
- E. Displays the variables or addresses from registries

Question 15 of 20

The technique for hiding information in a program which allow identify the way that an unauthorized user has come into the program possession, is called:

- A. RSA Encryption
- B. Assembly Linking
- C. Watermarking
- D. Library Bypass Obfuscation
- E. Code managing

Question 16 of 20

What displays the program below, guided you by the comment in the source text #include <stdio.h>
void function(int a, int b, int c) {
 char buffer1[5] = "ABCD";

```
char buffer2[10] = "123456789";
       char *ret;
       ret = buffer1 + 16:
       //ret points on adr where the return address is kept
       (*ret) += 8;
}
int main() {
       int x;
       x = 0:
       function(1, 2, 3);
       x = 1:
       printf("%d\n", x);
       getchar();
       return 0;
}
    A. 1
    B. 16
    C. 0
    D. 8
    E. 4
```

Question 17 of 20

Which of the following options IS NOT a remedy to SQL Injection vulnerability?

- A. Writing between single quotation marks the variable part, given by the user
- B. Using of stored procedures
- C. Avoiding the query of remote servers
- D. Using the parameters for transmission the values to server
- E. Validation of the values entered by user

Question 18 of 20

Stack inspection is a technique by which:

- A. It is prevented the call of a privileged function by a non privileged function
- B. It is eliminated the possibility that a non privileged function to get special access rights calling a privileged function
- C. Caller function is protected from the vulnerabilities of unsafe code from the called
- D. Variables or addresses on the stack are displayed
- E. The data on the stack are coded for not being consulted by a malicious code

Question 19 of 20

What is the name of the arbitrary code call made by a hacker through exploiting the context of security from an assembly level?

- A. Direct Manipulation
- B. Virtual Attack
- C. Confused Deputies
- D. Code Injection
- E. Spoofing

Question 20 of 20

Which of the following statements are not related to 'strong type' concept?

- A. Clear delimitation of operations that are allowed on a type of data
- B. Defining all accepted conversions for a data type
- C. The knowledge of types since compilation stage
- D. Initializing all variables before use
- E. Prohibiting any conversion from a data type to another

```
Question 21.
#include <stdio.h>
#include <string.h>

int main()
{
    int lg =-10;
    char buff[100]="Exam";
    bool r = lg + strlen(buff) < sizeof(buff);
    printf(r ? "Passed" : "Failed");
    getchar();
}
Displays:
    A. Passed
    B. 1;
    C. False;
    D. Failed
    E. true.
```

Question 22.

Obfuscation technique is applied for:

1. source code; 2. source code brought into intermediate language; 3.executable code.

A.1+2 B.3 C.2 D.2+3 E.1

Question 23

E.123321

```
#include <iostream>
using namespace std;
void f(int x) {
        for (int i = 0; i < 3; ++i)
                printf("%d", *((int*)x + i));
}
void main() {
        int a = 1, b, c;
        a = (b = 2, c = 3, a<0)? (b -= 1, b - 1): (c -= 2, c + 2);
        cout << a << " " << b << " " << c;
        int vect[] = \{1,2,3\};
        int i = int(vect); f(i);
        getchar();
}
A.123123
B.332211
C.321123
D.321321
```

```
Question 11 of 20
     namespace RaceCondition
     class Threads
     int result = 0;
     AutoResetEvent event1 = new AutoResetEvent(false);
     AutoResetEvent event2 = new AutoResetEvent(false);
     AutoResetEvent event3 = new AutoResetEvent(false);
     public void Process()
     Thread worker1 = new Thread(Work1);
     Thread worker2 = new Thread(Work2);
     Thread worker3 = new Thread(Work3);
     WaitHandle[] waitHandles = new WaitHandle[]
     { event2, event3 };
     worker1.Start(); worker2.Start(); worker3.Start();
     WaitHandle.WaitAny(new WaitHandle[] { event1 });
     Console.WriteLine(result);
     }
     void Work1()
     WaitHandle.WaitAll(new WaitHandle[] { event2, event3 });
     result = 1; event1.Set();
     void Work2() { result = 2; event2. Set(); }
     void Work3() { result = 3; event3. Set(); }
     static void Main(string∏ args)
     Threads proces = new Threads();
     proces.Process(); Console.Read();
     displays:

    A. 0, initialization value for result

    B. 2 or 3 depending of running context(threads scheduling)

       C. 1, because first thread is the last one setting result

    D. a residual value

    E. 2, last thread assigned result
```

Reset Selection

```
Question 14 of 20
```

```
string frazaSQL = "select * from client where nume = " + tbNume.Text
string frazaSQL = "select * from client where nume = " + tbNume.Text + "";
```

Which of the two Select sentences above, you appreciate as more secure?

- A. the first, because it not allows you to add new conditions;
- B. both are equally safe;
- C. the first, because it is easier (uncomplicated);
- D. the second, because it not allows you to add new conditions;
- E. the second because it makes validations

Reset Selection

```
Question 17 of 20

#include "stdafx.h"

#include <stdio.h>

void main()
{
    int *v, b=1, c=2, n=60; v = new int[n];
    for (int i = 0; i < n-2; i+=3)
    v[i] = i, v[i+1] = i+1, v[i+2] = i+2;

    n%3 ? (n%3==1 ? v[n-1] = n-1 : (v[n-2] = n-2), (v[n-1] = n-1) ):n;
    printf("\n v[%d] = %d", n-1, v[n-1] ); getchar();
}
```

- A. is a double loop unrolling working only for n = 3k;
- B. is a double loop unrolling working only for n = 3k+1;
- C. is a double loop unrolling working for any integer n;
- D. attempts to optimize a program's execution, but doesn't obfuscate;
- E. contains sintax errors

Reset Selection

```
Question 17
#include "stdafx.h"
#include <stdio.h>

void main()
{
    int *v, b=1, c=2, n=60; v= new int[n];
    for (int i=0; i<n-2;i+=3)
    v[i]=i, v[i+1]=i+1, v[i+2]=i+2;
    n%3 ?(n%3==1 ?v[n-1] = n-1 : (v[n-2] = n-2), (v[n-1] = n-1)):n;
    printf("\n v[%d]= %d", n-1, v[n-1]); getchar();
```

A. is a double loop unrolling working only for n=3k;
B. is a double loop unrolling working only for n=3k+1;
C.is a double loop unrolling working for any integer n;
D.attempts to optimize a program's execution, but doesn't Obfuscate;
E.contains sintax errors

https://www.qfeast.com/scored/quiz/UsnWyH/SourceCodeSecurity SCS-quiz