

## INGENIERÍA

ΕΝ Λυτοματιζαςιόν

First Quiz Advanced Programming
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Group: 3 2



1. Perform the following energians and write

 Perform the following operations and write the result in the requested format (1.0 points)

```
a) 35 - 112 = X_{16(ca2)}

b) 123 - 0xE1 = X_{8(ca2)}

c) 063 + 135 = X_2 7 7 0\omega 7 10 \omega 4 0 0xEFE -681 = X_8
```

 2. The next code was created in DEV-C++ like C program, analyze it and say: (0.5 points)

```
#include "iostream"
#include <stdio.h>
int main() {
  printf("Hola Mundo");
}
```

- a) The program will run correctly
- b) The program will not run since it must have a return.
- c) The program cannot contain C++ ← libraries
- The iostream library was declared incorrectly

3. Given the next code, Which is the return with end the execution? (0.5 points)

```
int main(){
    std::cout << "Hola Mundo";
    return -5;}
s) Return 5</pre>
```

- b) Must return cero, have a syntaxis error
- c) Return FFFB
- d) Retuning data error

4. What is the output value on the screen? (0.5 points)

```
#include<stdio.h>
int X=40;
int main(){
    int X=20;
    float x=10.0;
    printf("%i\n", x);
    return 0;}
```

```
10
```

0.5 What will be the output of the program ?

Coding

6. What will be the output of the program?

```
#include <stdio.h>
void main()
{
  int i, j;
  j = 1;
  for (i = 1; i < 8; i++) for;
        j <<= 1;
  printf("%X\n", j);
}</pre>
```

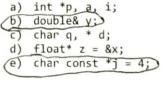
7. What is the output value on the screen? (0.5 points)

```
#include <stdio.h>
void main()
{
    unsigned int s;
    s = (~0xFFFF80A5 | 0xF) ^ (0x58 &
0b00101101);
    printf("Valor: %x", s);
}
```

8. What is the output value on the screen?(0.5 points)

```
#include <stdio.h>
void main() {
    int a = 5, * q1;
    char **q2;
    q1 = &a; q2 = (char**)&q1;
    printf("%d\n", **q2 << 1);}</pre>
```

9. Which of these statements are incorrect? (0.5 points)





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10. What is the output value on the screen? 0.5 (0.5point)

```
#include <stdio.h>
#include "conio.h"
void main()
                Valor: -
 int adc = 512;
                            Eparios varios
 float v;
 v = (adc * 5.0)/1023;
 printf("Valor: %3.2f",v);
```

11. What is the output value on the screen?

```
0.5
                                                  (0.5 point)
           #include <iostream>
           using namespace std:
           void main()
              const char* c[] = {"1,2,3","2,4,6" };
cout << **c << "," << *(*(c+1));}
```

12. Given an array v with the following 0.25 definition: (0.5 points)

```
int v[] = \{ 10, 20, 30, 40 \}, i, *pv;
```

What screen output is caused by the following statements?

```
( ! [ ) id
a) for (pv = v; pv <= v + 3; ) \( (e_1)
                                pv = 10
 cout << " *pv =
b) for (pv = v, i = 1; i <= 3; soltode
 cout << " pv[i] = " << pv[i]; [v[i] = 20
c) for (pv = v, i = 0; pv+i < 0)
                                      Pv[i]=30
                                      OF = [ : ]UQ
     &v[3]; pv++,i++)
 cout << " *(pv + i) = " << *(pv +
      *(puti) = 10 *(pv+i) = 30
^{\text{d}}) for (pv = v + 3; pv >= v;
```

[6]V [7]V [5]V ( vq cout << " v[" << (pv-v) << "] = "<< v[pv - v];

```
v[3] = 40 \ v[2] = 30 \ v[7] = 20
```

1502 = 1503 1500

13. What is the output value on the screen? (0.5 point)

```
#include <iostream>
#include <math.h>
#define f1(A) A*A-4.3
using namespace std;
                          6.45
void main()
 double a = 3.5;
 cout << f1(a) << endl;
```

14. What is the output value of the next code? (1.0 point)

```
#include <stdio.h>
                              i=15% 17
      int main(void){
      int i, j, k = 2, l = 7;
      i = 9 + 3 * 2; 15
      j = 8 \% 6 + 4 * 2; 10
      i %= ++j; _
                                Value; 4
      8 = B
                              Error de
      --k -= 17+ * 2;
      printf("\nValue%i", k);
                                   compilación
      i -= 5.5 - 3 * 2 % 4;
      j += (i++ * 2 - (k += 3, --k));
      printf("\nValue: %i", j);}
```

15. What will be the output of the next program? (0.5 points)

```
#include <iostream>
                 using namespace std;
        \rho v = 20 void main()
     1 * pu = 30 char* o, * u;
A 1:064 ( pu e fection p[] = { "HOY PASARE" };
                 char q[20];
                 o = p;
                 u = q;
                 for (; *o != '\0'; u++, o++)
                        *u = (*o != ' ') ? *o : '\0';
                 printf("%s %c%c",q, *p+6,*(p+1));}
```

16. Make a code that allows a user to enter a number(N) and generate an output to print on screen a text with the next format

```
(1.5 points)
         3
         12
N+N...
```

atras

Diego Joel Zuniyy fragoso 60090 32 -77 1: 35-772 = 400 63+135=198

1 7 0 0 0 7 7 0

> Λ 0000 0000 5000 1000 6111 711 τ 0 101 0711 7 F 5 7

& 0101 1000 0010 1101

```
Diego Jost Zuñiga Fra goso Grogo 37

10 \frac{5^{1}12}{2560} \frac{2.50}{1023} \frac{2.50}{2560} \frac{5}{1023} \frac{2.50}{5140} \frac{7^{1}07^{3}}{5145} \frac{2.5}{5+15} \frac{3.5 \times 3.5}{3.5 \times 3.5} = 10.75 - 4.3 = 6.45
```

```
#include <iostream>
Using nanes pace std;
Vold main()

{

int N;

cout <c "Ingrese el numero N:";

cin >> N;

for (int i=0; i <= N; i++)

{

for (int j=1; j <= i; j++)

{

print f (" " " it", i*j);

}

cout << endl;
```