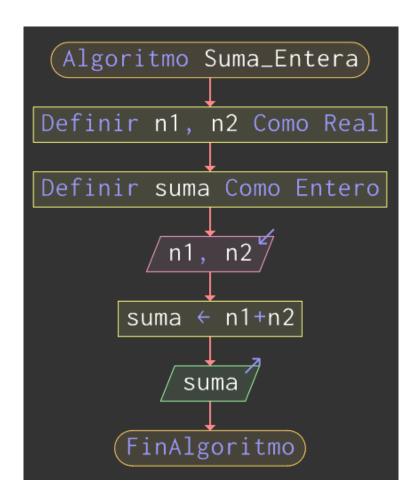
EJERCICIO 1

https://www.programiz.com/online-compiler/6FW2Aq5JN9EY4

```
#include <iostream>
2  using namespace std;

3
4 //Exercise 1
5 /*Escriba un programa que lea dos números double
6  e imprima la parte entera de su suma.*/

8  int main() {
9     double n1;
10     double n2;
11     cin >> n1 >> n2;
12
13     int suma = n1 + n2;
14
15     cout << suma << endl;
16     return 0;
17 }</pre>
```



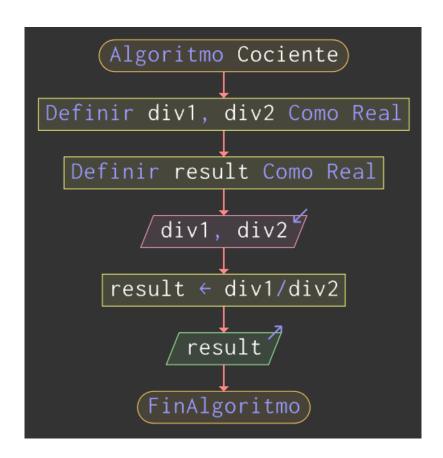
EJERCICIO 2

https://www.programiz.com/online-compiler/8vCGTPr1Waqjz

```
#include <iostream>
2  using namespace std;

4  //Exercise 2
5  /*Escriba un programa que lea dos números double
6  e imprima su cociente*/

8  int main() {
9     double div1, div2;
10     cin >> div1 >> div2;
11
12     double result = div1 / div2;
13
14     cout << result << endl;
15     return 0;
16 }</pre>
```

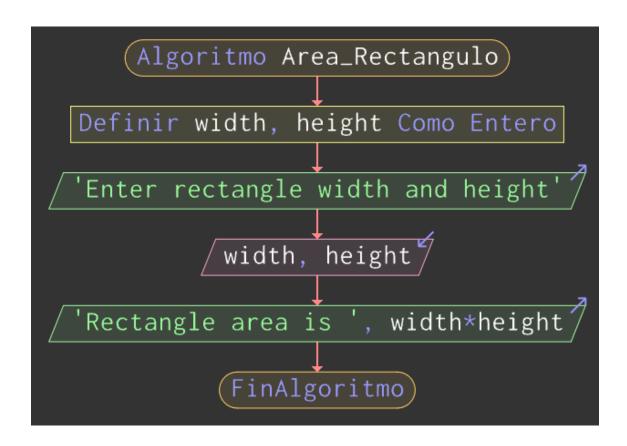


https://www.programiz.com/online-compiler/3LhatcTdeSqwI

```
#include <iostream>
2 using namespace std;

4 //Exercise 3
5 /*Solucionando los errores del programa*/

int main() {
8  int width, height;
9  cout < "Enter rectangle width and height" << endl;
10  cin >> width >> height;
11  cout << "Rectangle area is " << width * height << endl;
12  return 0;
13 }
```

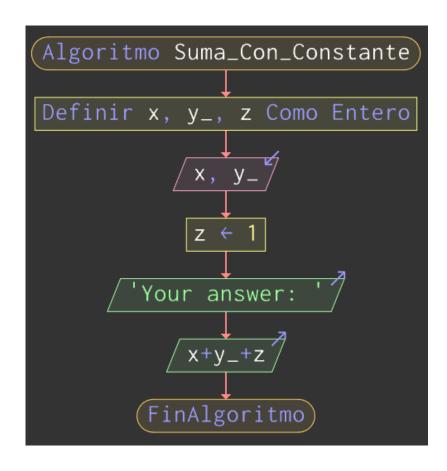


https://www.programiz.com/online-compiler/578siTFwUOHYL

```
#include <iostream>
2 using namespace std;

4 //Excercise 4
5 /*Solucinando los errores del programa*/
6 int main() {
7    int x, y;
8    cin >> x >> y;
9    int z = 1;
10    cout < "Your answer: " << endl;
11    cout < x + y + z << endl;
12    return 0;
13 }

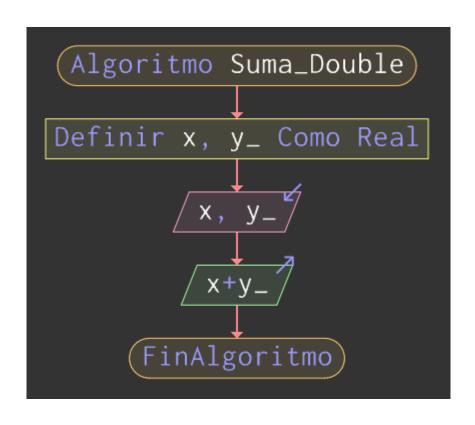
14</pre>
```



https://www.programiz.com/online-compiler/8dsCuznRghnpl

```
#include <iostream>
2 using namespace std;

4 //Excercise 5
5 /*Cambiando de int a double variables*/
6 int main(){
7     double x, y;
8     cin >> x >> y;
9     cout << x + y;
10     return 0;
11 }</pre>
```



https://www.programiz.com/online-compiler/1sFcyErK3lgr0

```
#include <iostream>
#include <iostream>
#include <string>
using namespace std;

//Excercise 6

//Excercise 6

//Definiendo variables y pidiendo datos
string nombre;
string apellido;
cin >> nombre >> apellido;

//Cambieando el orden de los datos con "+"
string salida = apellido + ", " + nombre;
cout << salida;
return 0;

// The cout </tr>
```



EJERCICIO 7

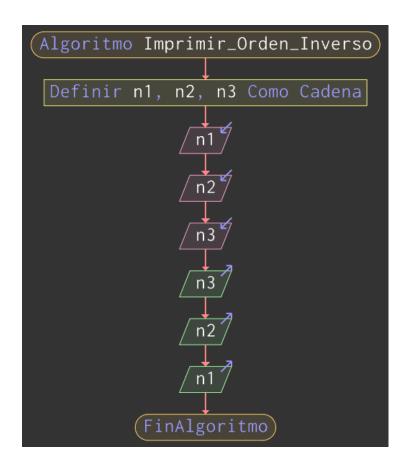
https://www.programiz.com/online-compiler/0kNU26MnFA1Qj

```
#include <iostream>
#include <string>
using namespace std;

//Exercise 7

// int main () {
    //Definiendo variables y pidiendo datos
    string n1, n2, n3;
    getline(cin, n1);
    getline(cin, n2);
    getline(cin, n3);

//Imprimiendo en orden inverso
cout << endl << n3 << endl;
cout << n2 << endl;
cout << n1 << endl;
return 0;
endl;
return 0;
endl;
```



EJERCICIO 1

https://www.programiz.com/online-compiler/7UmPKDes2ZiuK

```
#include <iostream>
#include <string>
susing namespace std;

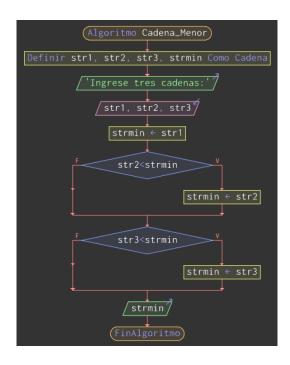
//Exercise 1

//Exercise 1

//Declarando variables y pidiendo datos
string str1, str2, str3;
cin >> str1 >> str2 >> str3;

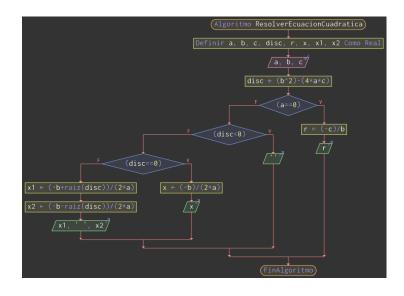
//Comparando y guardando la cadena menor
string strmin = str1;
if (str2 < strmin) strmin = str2;
if (str3 < strmin) strmin = str3;

//Imprimiendo la cadena menor
cout << strmin <> endl;
return 0;
}
```



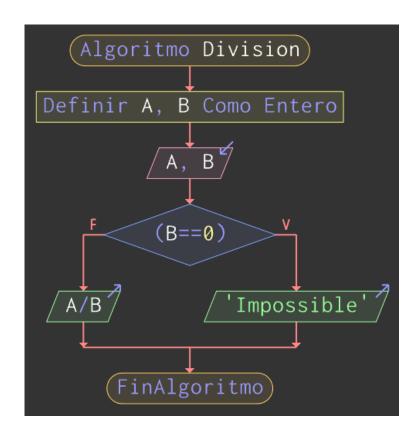
https://www.programiz.com/online-compiler/72EKZzy5OfLbV

```
Exercise_2
1 #include <iostream>
2 #include <cmath>
3 using namespace std;
5 //Exercise 2
      //Declarando variables y pidiendo datos
      float a, b, c;
      //Calculando el discriminante
      float disc = (b * b) - (4 * a * c);
      //Calculando las raices
      if (a = 0) {
          float r = -(c/b); //Calculando cuando a = 0
          cout << r << endl;</pre>
      } else if (disc < 0) { //Cuando disc < 0
      } else if (disc = 0){
          float x = (-b)/(2*a); //Calculando cuando disc = 0
          cout << x << endl;
      }else {
          float x1 = (-b + sqrt(disc)) / (2 * a);
          float x2 = (-b - sqrt(disc)) / (2 * a);
          cout << x1 << " " << x2 << endl;
      return 0;
```



EJERCICIO 3

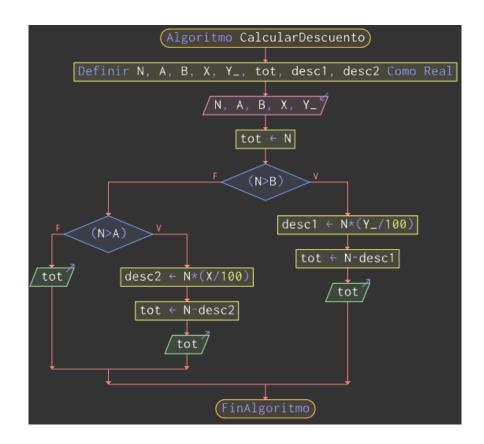
https://www.programiz.com/online-compiler/0JeA93MCO7mlr



EJERCICIO 4

https://www.programiz.com/online-compiler/9NwmEGU3GBgR4

```
Exercise_4
1 #include <iostream>
2 using namespace std;
  //Exercise 4
      //Declarando variables y pidiendo datos
     float N, A, B, X, Y;
     cin >> N >> A >> B >> X >> Y;
     float tot = N; //Guardando el total
     //Calculando el descuento y el total a pagar
     if (N > B){
          float desc1 = N*(Y/100); //Calculando el descuento
         float tot = N - desc1; //Calculando el total
         cout << tot << endl;
     } else if (N > A){
         float desc2 = N*(X/100); //Calculando el descuento
         float tot = N - desc2; //Calculando el total
         cout << tot << endl;</pre>
         cout << tot << endl; //Imprimiendo el total</pre>
```



https://www.programiz.com/online-compiler/12EKZzoWXfxxD

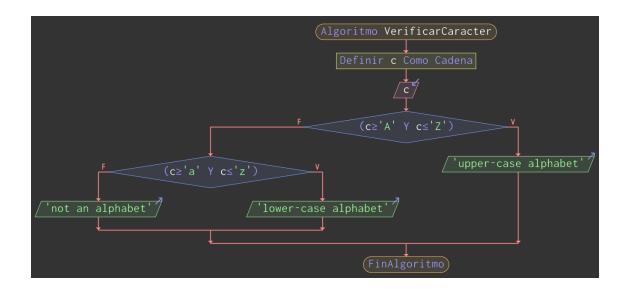
```
#include <iostream>
2 using namespace std;

//Exercise 5

int main (){
//Declarando variables y pidiendo datos
char c;
cin >> c;

//Comparando y mostrando el resultado
if (c > 'A' && c < 'Z') { //Cuando es mayuscula
cout < "upper-case alphabet" << endl;
else if (c > 'a' && c < 'z') { //Cuando es minuscula
cout << "lower-case alphabet" << endl;
else { //Cuando no es una letra
cout << "not an alphabet" << endl;
}
return 0;
}

return 0;
```



https://www.programiz.com/online-compiler/3P7dbi2yBIFzL

```
#include <iostream>
using namespace std;

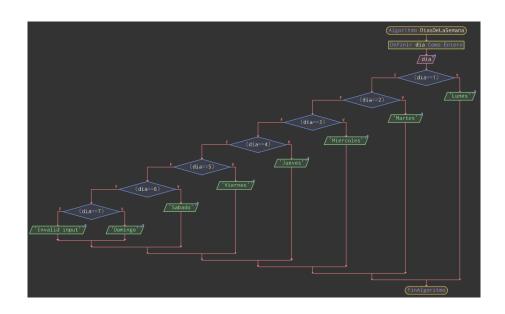
//Exercise 6

int main() {
// Declarando variables y pidiendo datos
int dia;
cin >> dia;

//Comparando y mostrando el resultado
switch (dia) {
case 1:
case 1:
case 2:
case 4:
case 2:
cout < "Nartes";
break;
case 3:
cout < "Wiercoles";
break;
case 4:
case 4:
case 4:
case 4:
case 5:
cout < "Jueves";
break;
case 6:
cout < "Viernes";
break;
case 6:
cout < "Tomingo";
break;
default:
cout < "Invalid input";
break;
fereturn 0;
}
return 0;
}

return 0;
}

return 0;
```



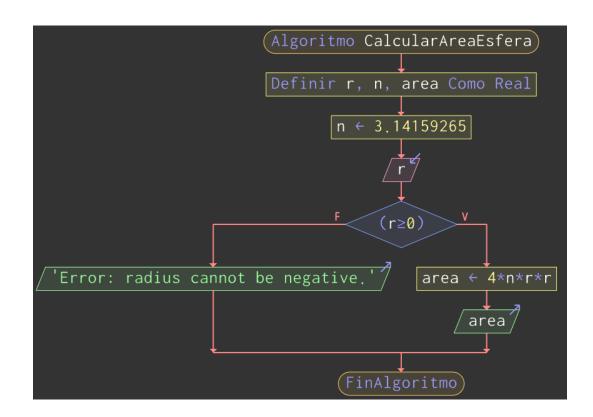
https://www.programiz.com/online-compiler/OHdvYu8gZLFhJ

```
#include <iostream>
2 using namespace std;

//Exercise 7

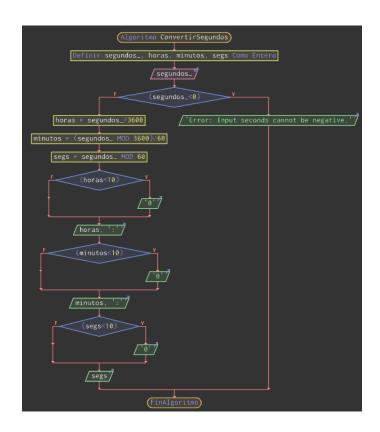
int main() {
    //Declarando variables y pidiendo datos
    float r;
    float n = 3.14159265; //Valor de pi
    cin >> r;

//Calculando el area y sus casos
    if (r>0) {
        float area = 4*n*r*r;
        printf("%f", area);
    } else {
        cout << "Error: radius cannot be negative."<< endl;
    }
    return 0;
}</pre>
```

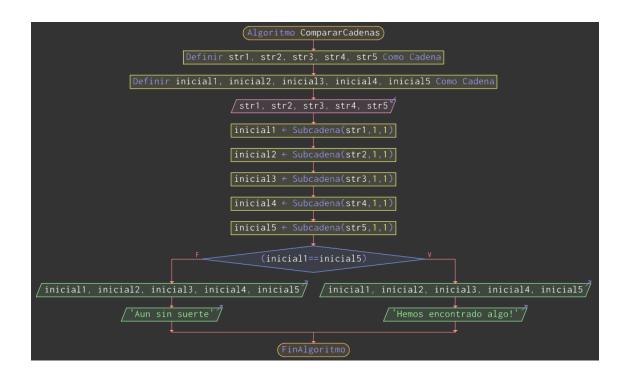


https://www.programiz.com/online-compiler/32EKZ2dDvfGg5

```
Exercise_8
using namespace std;
//Exercise 8
      //Declarando variables y pidiendo datos
     int segundos;
cin >> segundos;
     //Calculando las horas, minutos y segundos
     if (segundos < 0) { //Cuando los segundos son negativos cout << "Error: Input seconds cannot be negative." << endl;
      } else { //Cuando los segundos son positivos
          int horas = segundos / 3600; //Arroja la parte entera de la
division
           int minutos = (segundos % 3600) / 60; //Arroja el residuo de la
division entero
int segs = segundos % 60;
           //Definiendo el formato de salida
          if (horas < 10) {
    cout << "0";
    cout << horas << ":";</pre>
           } else {
    cout << horas << ":";
           if (minutos < 10) {
    cout << "0";
    cout << minutos << ":";</pre>
              cout << minutos << ":";
           if (segs < 10){
    cout << "0";
    cout << segs << endl;</pre>
           } else {
   cout << segs;</pre>
```

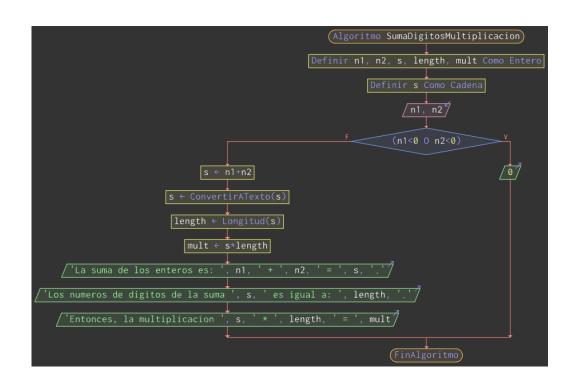


https://www.programiz.com/online-compiler/4VrM6V0NcGDYT



https://www.programiz.com/online-compiler/6c2XRcR5TgutF

```
Exercise_10
1 #include <iostream>
  3 using namespace std;
  5 //Exercise 10
                                            //Declarando variablesy pidiendo datos
                                          int n1, n2;
                                         cin >> n1 >> n2;
                                          //Calculando la suma, la cantidad de digitos y la multiplicacion % \left( 1\right) =\left( 1\right) \left( 1\right) \left(
                                          if (n1 < 0 \mid \mid n2 < 0){ //Cuando los numeros son negativos
                                                                  cout << 0 << endl;
                                                                                                                                                                                             //Cuando los numeros son positivos
                                                                    int s = n1 + n2; //Calculando la suma
                                                                    string S = to_string(s); //Convirtiendo la suma a string
                                                                    int length = S.size(); //Calculando la cantidad de digitos
                                                                    int mult = s * length; //Calculando la multiplicacion
                                                                    //Definiendo el formato de salida
                                                                    cout << "La suma de los enteros es: " << n1 << " + " << n2 << " = "
                                                                      << s << ". Los numeros de digitos de la suma " << s << " es igual a: "
                                                                    <\!< ". Entonces, la multiplicacion " <\!< s <\!< " * " <\!< length <\!< " = " <\!<
            mult << endl;
                                        return 0;
```



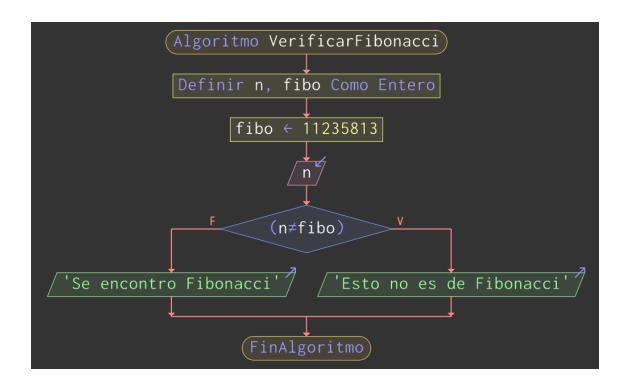
https://www.programiz.com/online-compiler/6wQ6Gwiw9TCjK

```
#include <iostream>
#include <string>
using namespace std;

//Exercise 11

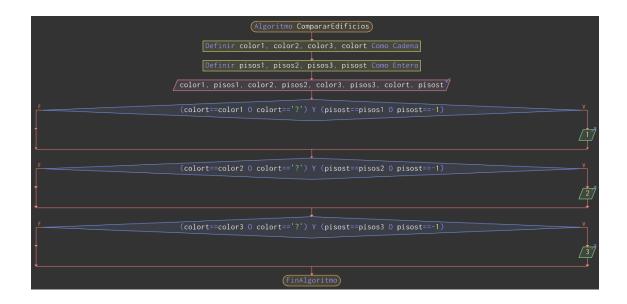
// int main() {
    //Declarando variables y pidiendo datos
    int n;
    const int fibo = 11235813; //Numero de Fibonacci
    cin >> n;

//Comparando y mostrando el resultado
    if (n ≠ fibo) {
        cout < "Esto no es de Fibonacci" << endl;
    } else
        cout < "Se encontro Fibonacci" << endl;
    return 0;
}</pre>
```



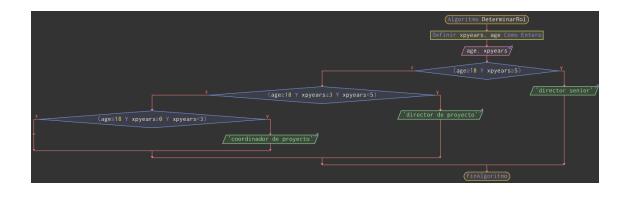
https://www.programiz.com/online-compiler/0WvEBW86W3B4B

```
Exercise_12
1 #include <iostream>
2 #include <string>
3 using namespace std;
5 //Exercise 12
      //Declarando variables y pidiendo datos
      string color1, color2, color3, colort;
      int pisos1, pisos2, pisos3, pisost;
      cin >> color1 >> pisos1 >> color2 >> pisos2 >> color3 >> pisos3 >> colort
  >> pisost;
      //Comparando y mostrando el resultado caso 1
      if ((colort = color1 || colort = "?") && (pisost = pisos1 || pisost =
          cout << 1 << endl;
      //Comparando y mostrando el resultado caso 2
      if ((colort = color2 || colort = "?") && (pisost = pisos2 || pisost =
          cout << 2 << endl;
      //Comparando y mostrando el resultado caso 3
      if ((colort = color3 || colort = "?") && (pisost = pisos3 || pisost =
         cout << 3 << endl;</pre>
      return 0;
```



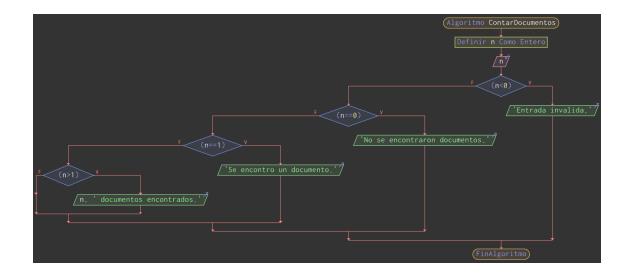
https://www.programiz.com/online-compiler/9rlL5rLel4B6c

```
Exercise_13
1 #include <iostream>
2 using namespace std;
4 //Exercise 13
       //Declarando variables y pidiendo datos
      int xpyears, age;
      cin >> age >> xpyears;
      //Comparando y mostrando el resultado
      if (age \geqslant 18 && xpyears \geqslant 5 ){ //Condicion para director senior
           cout << "director senior" << endl;</pre>
       } else if ((age \geqslant 18) && (xpyears \geqslant 3 && xpyears < 5 )){ //Condicion para
  director de proyecto
           cout << "director de proyecto" << endl;</pre>
      } else if ((age \geq 18) && (xpyears \geq 0 && xpyears < 3 )){ //Condicion para
  coordinador de proyecto
           cout << "coordinador de proyecto" << endl;</pre>
      return 0;
```

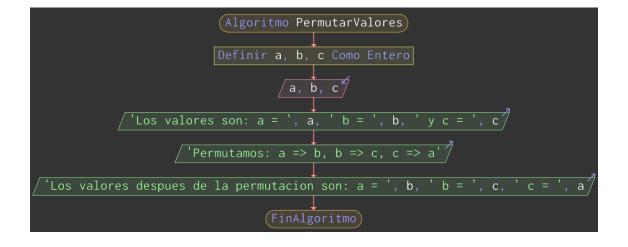


EJERCICIO 14

https://www.programiz.com/online-compiler/33akF34DrJ2gG



https://www.programiz.com/online-compiler/6K0bXRMbt19w2



https://www.programiz.com/online-compiler/72EKcyRLGfmDM

```
Exercise_16
1 #include <iostream>
2 using namespace std;
 4 //Exercise 16
            //Declarando variables y pidiendo datos
            int horai, horaf;
            cin >> horai >> horaf;
            //Comparando y mostrando el resultado
             if(horai < 0 || horai > 24 || horaf < 0 || horaf > 24){ //Cuando las
  horas no estan en el rango
  } else if(horai = horaf){ //Cuando las horas son iguales cout < "Que extraño, no has alquilado tu bicicleta por mucho tiempo!" << endl;
           } else if (horaf < horai){ //Cuando el inicio es mayor al final
           } else { //Cuando las horas estan en el rango
                int horas1 = 0, horas2 = 0; if (horai \geqslant 0 && horaf \leqslant 24){ //Cuando las horas estan en el
  rango
                // Entre 0 y 7
if(horai ≥ 0 && horaf ≤ 7){
horas1 = horaf - horai;
                //Entre 7 y 17
if(horai ≥ 7 && horaf ≤ 17){
horas2 = horaf - horai;
                //Entre 17 y 24
                horas1 = horaf - horai;
                //Entre 0 y 17
                if ((horai \geq 0 && horai \leq 7) && (horaf \geq 7 && horaf \leq 17)){ horas1 = 7 - horai;
                horas2 = horaf - 7;
                //Entre 7 y 24
                 if ((horai ≥ 7 && horai ≤ 17) && (horaf ≥ 17 && horaf ≤ 24)){
                horas1 = horaf - 17
                 //Entre 0 y 24 (combina los dos anteriores)
                if ((horai \geqslant 0 && horai \leqslant 7) && (horaf \geqslant 17 && horaf \leqslant 24)){ horas1 = (7 - horai) + (horaf - 17);
                horas2 = 10;
                // Definiendo el formato de salida
                cout << "Has alquilado una bicicleta por" << endl;</pre>
                 //No se muestra si es 0
  endl;
                 //No se muestra si es 0
                 if (horas2 = 0){
                 } else {
                 cout << horas2 << " hora(s) con el tarifario de 2 boliviano(s)" <</pre>
                 //Calculando el total a pagar
                 //Ultima Salida
```

PRACTICO 2 PARTE 2

