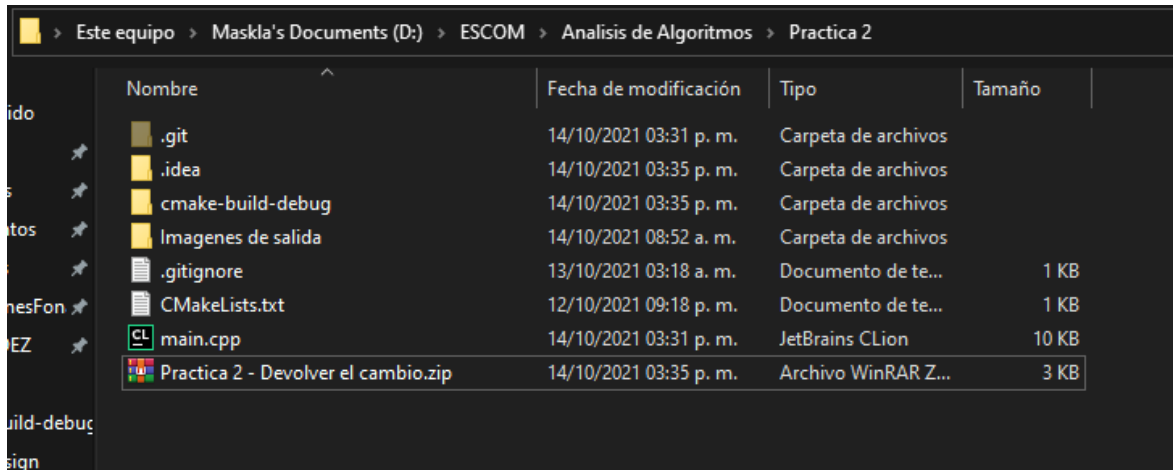


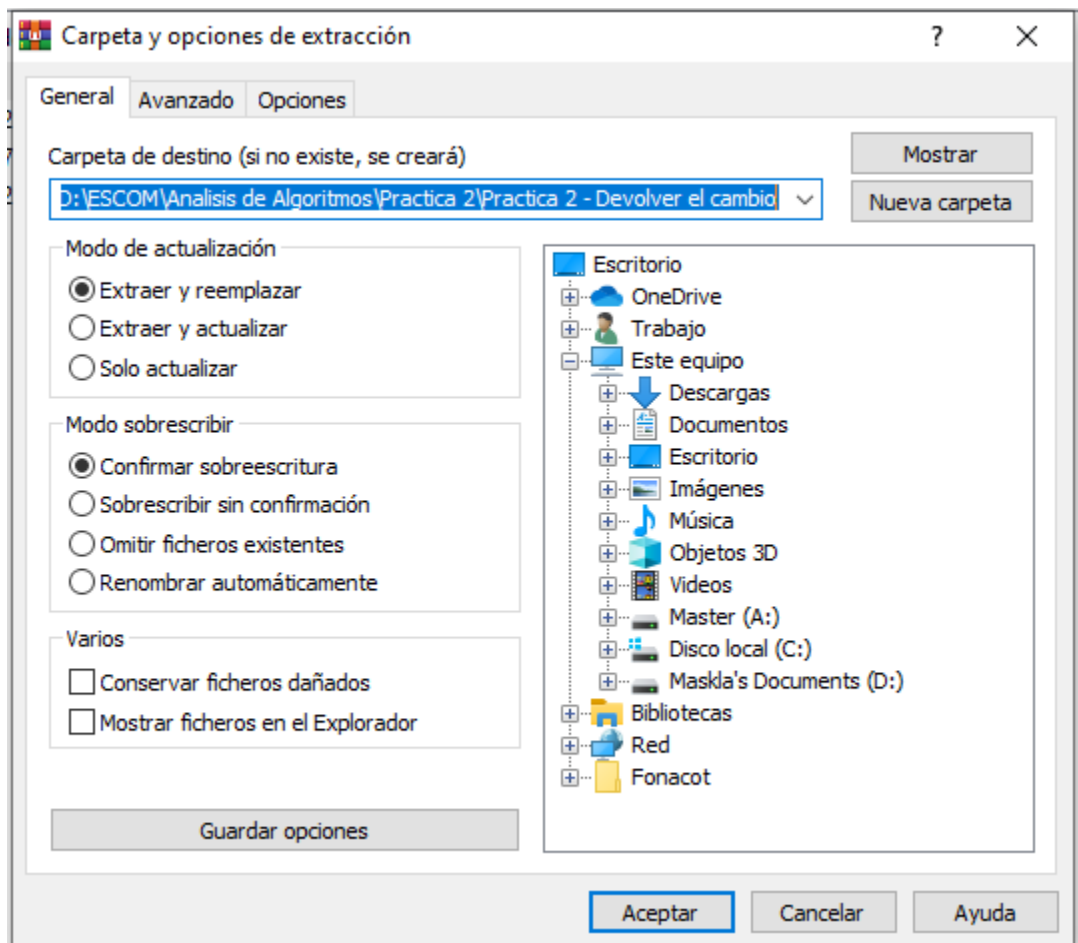
# Readme Práctica 2

## Ejecución programa DEVOLVER EL CAMBIO

Ubicar el archivo *Practica 2 – Devolver el cambio.zip*



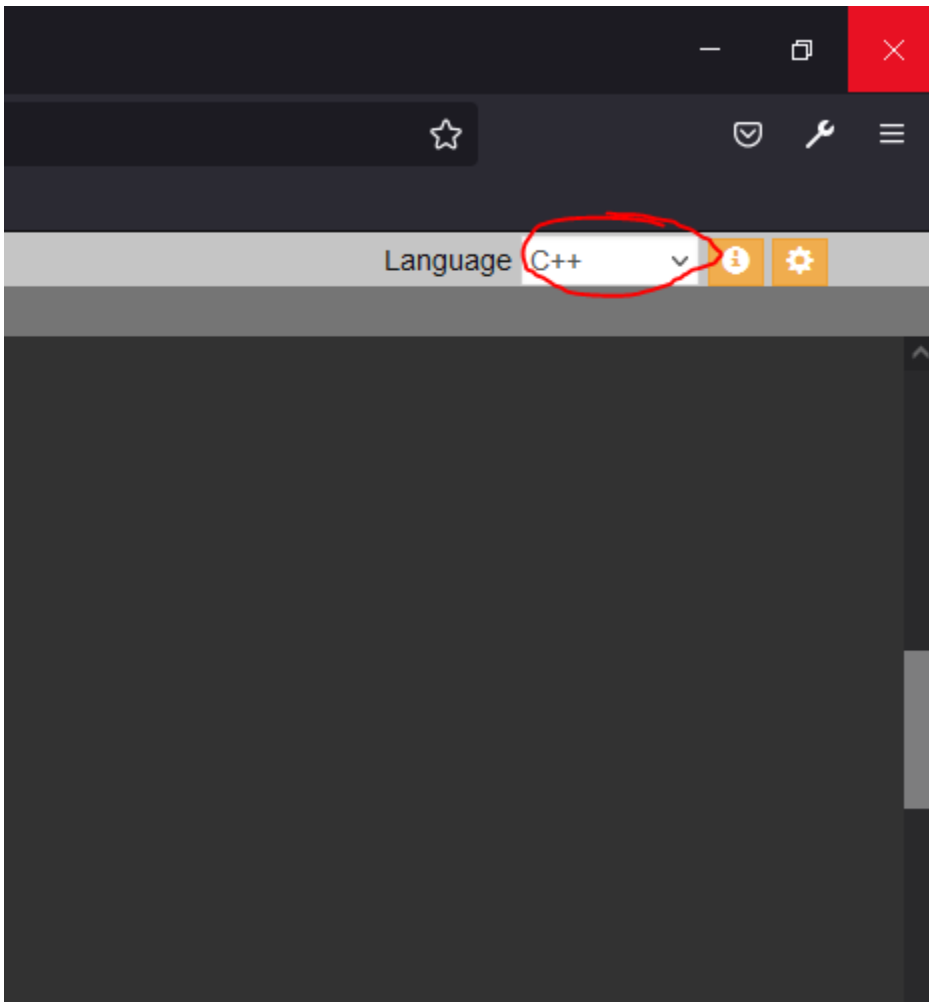
Descomprimir en la ruta deseada



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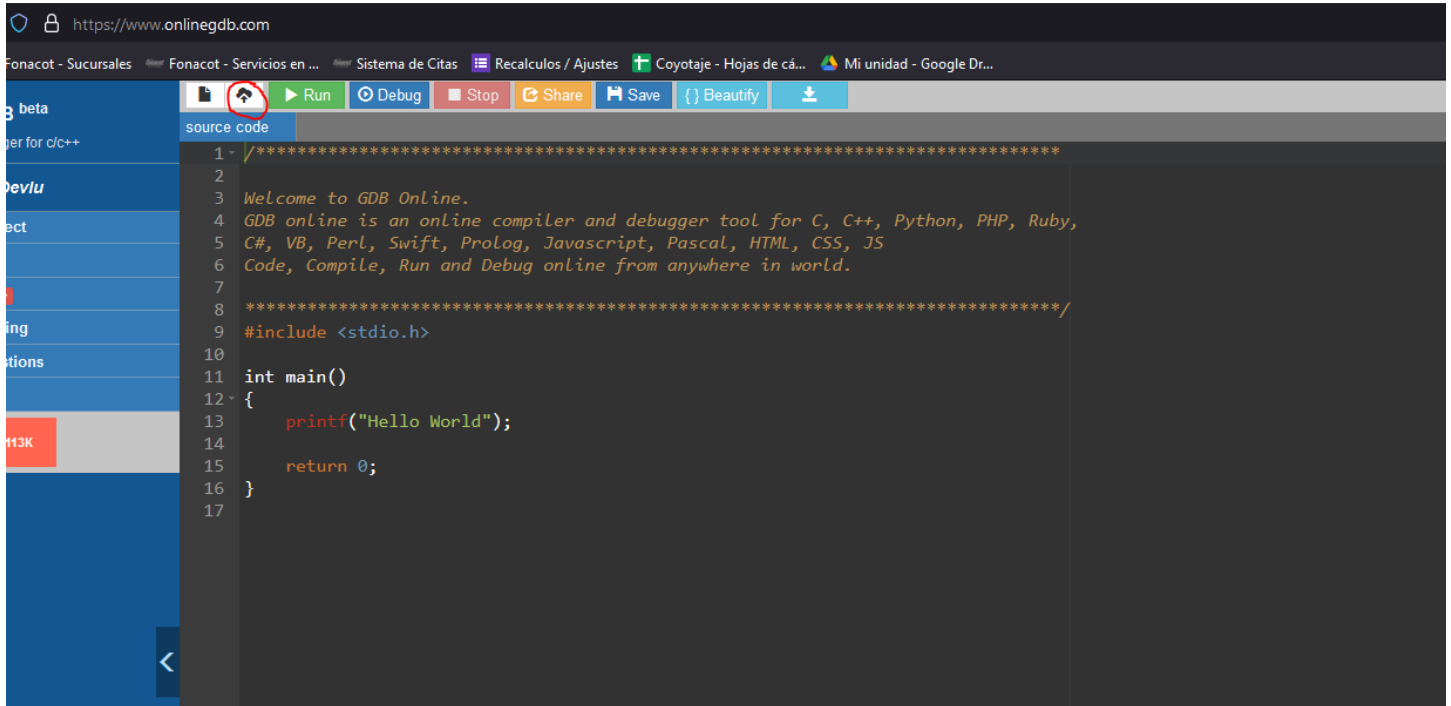
Abrir [Online GDB](#) y seleccionar lenguaje C++.



Dar clic en el icono *subir archivo*

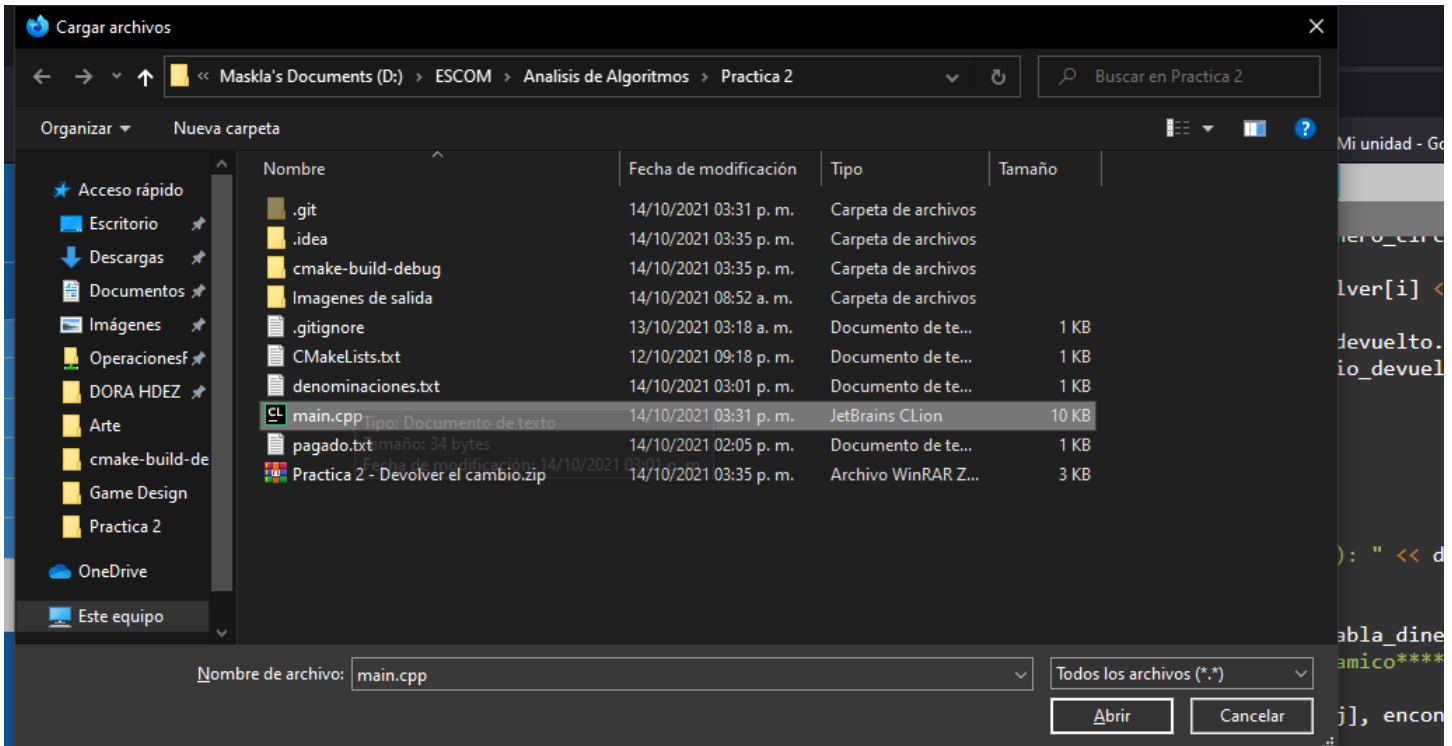
Aguirre Ortiz Brayan Javier  
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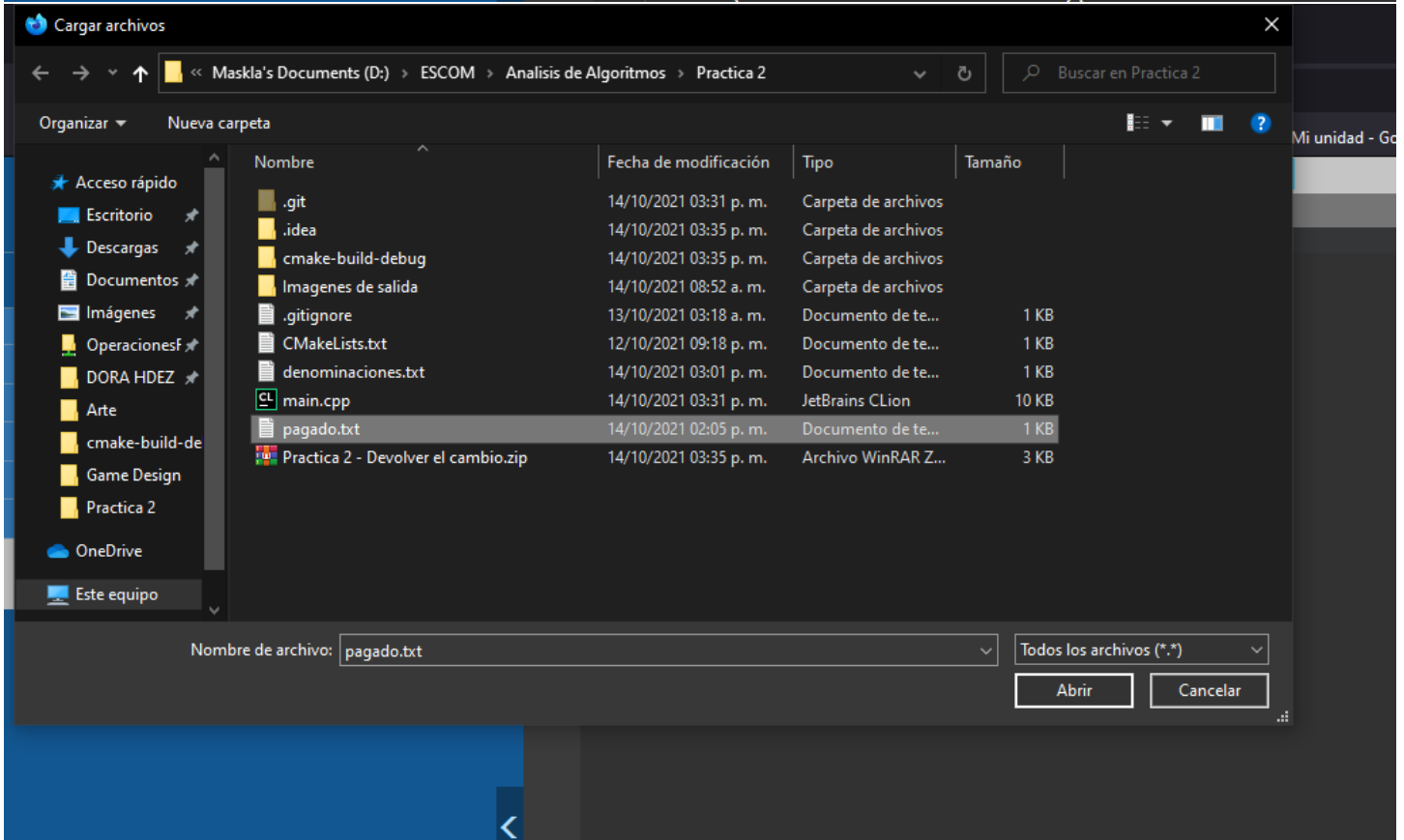
The image is a screenshot of a web browser displaying the onlinegdb.com website. The browser's address bar shows the URL 'https://www.onlinegdb.com'. The page has a dark theme. At the top, there is a navigation bar with several tabs: 'Fonacot - Sucursales', 'Fonacot - Servicios en ...', 'Sistema de Citas', 'Recalculos / Ajustes', 'Coyotaje - Hojas de cá...', and 'Mi unidad - Google Dr...'. Below this, there is a toolbar with icons for 'Run', 'Debug', 'Stop', 'Share', 'Save', and 'Beautify'. The main content area is a code editor with a dark background. It contains a C program that prints 'Hello World'. The code is as follows:

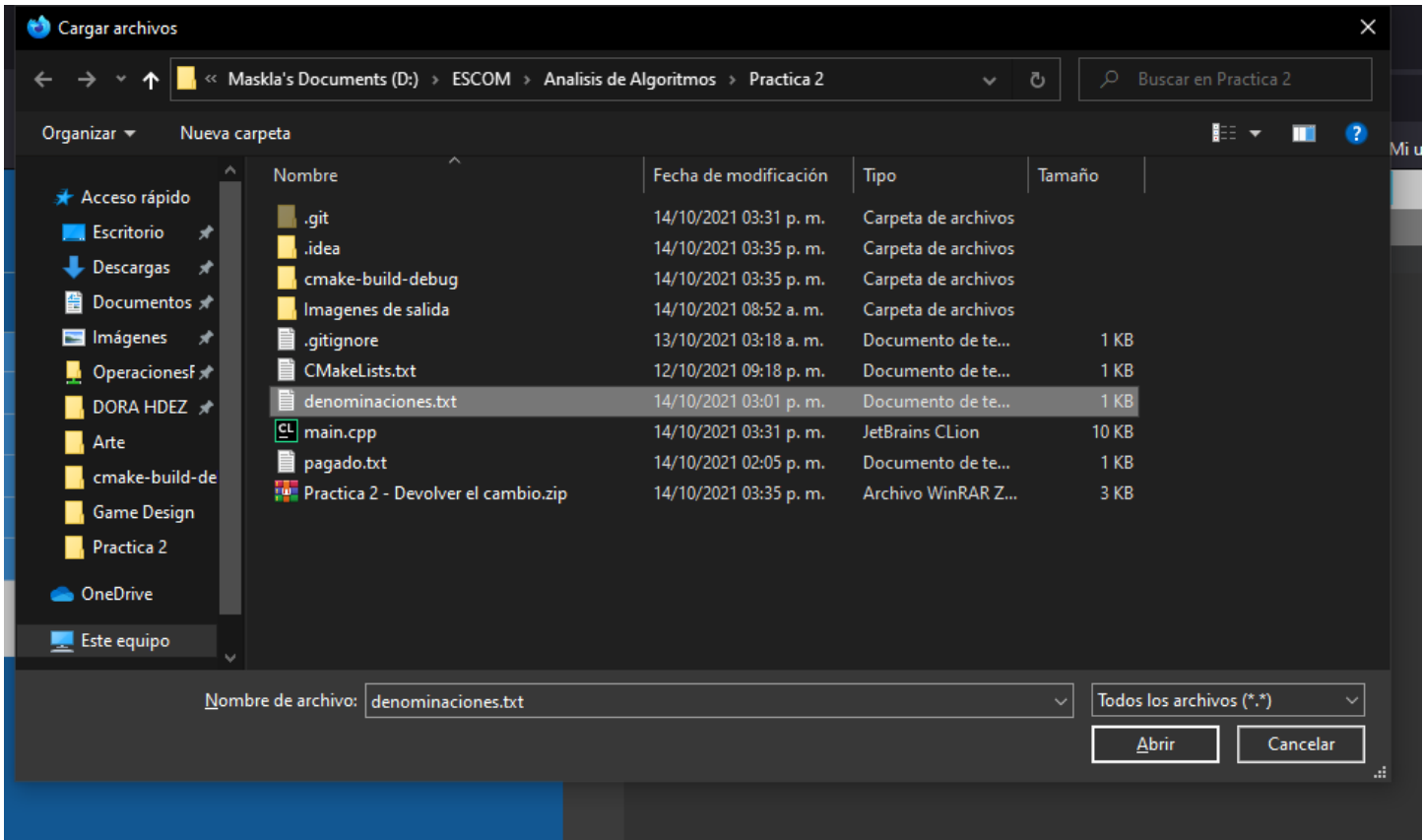
```
1 - /*****  
2  
3 Welcome to GDB Online.  
4 GDB online is an online compiler and debugger tool for C, C++, Python, PHP, Ruby,  
5 C#, VB, Perl, Swift, Prolog, Javascript, Pascal, HTML, CSS, JS  
6 Code, Compile, Run and Debug online from anywhere in world.  
7  
8 *****/  
9 #include <stdio.h>  
10  
11 int main()  
12 {  
13     printf("Hello World");  
14  
15     return 0;  
16 }  
17
```

Subir cada uno de los archivos descomprimidos

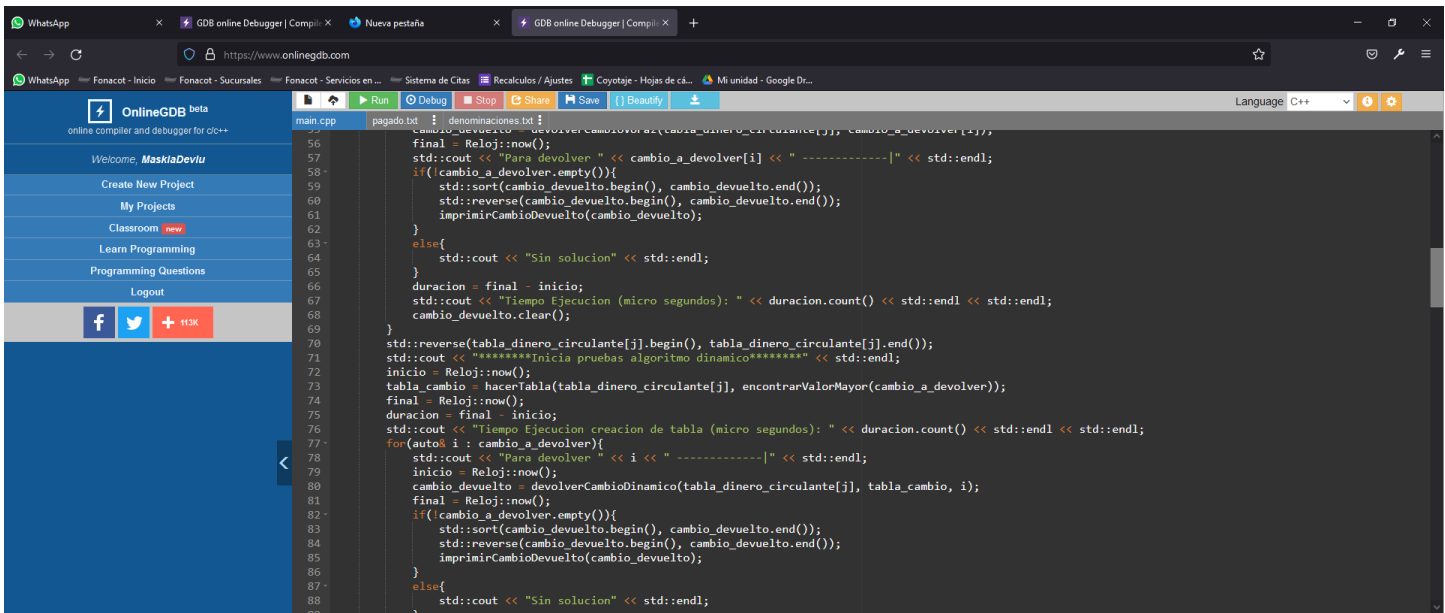


```
75      duracion = final - inicio;  
76      std::cout << "Tiempo Ejecucion creacion de tabla (micro seg  
77      for(auto& i : cambio a devolver){
```





Hecho todo correctamente, visualizaras en el editor del IDE 3 pestañas: main.cpp, pagado.txt y denominaciones.txt



Para iniciar el programa dar clic al botón verde "Run" en la parte inferior del editor aparecerá una pantalla en negro con la ejecución del programa

The screenshot shows the OnlineGDB beta web interface. On the left is a sidebar with navigation links: 'Welcome, MaskiaDevlu', 'Create New Project', 'My Projects', 'Classroom' (marked as 'new'), 'Learn Programming', 'Programming Questions', and 'Logout'. Below these are social media icons for Facebook, Twitter, and a '+113K' button. The main area displays a C++ program for calculating change. The code includes a `main` function that reads denominations and a total amount to be returned, then calls a `devolverCambio` function. This function uses a `while` loop and a `mayorDenominacion` helper function to determine the number of bills and coins to return. The output console shows the results for a total of 642: 80 bills of 8 and 2 bills of 1, with execution times of 9.726 and 7.829 microseconds respectively. The bottom of the page contains footer links for 'About', 'FAQ', 'Blog', 'Terms of Use', 'Contact Us', 'GDB Tutorial', 'Credits', and 'Privacy', along with a copyright notice for 2016-2021 GDB Online.

```
main.cpp
denominaciones.txt | pagado.txt |
207- for(unsigned int i : cambio){
208-     if(denominacion == i){
209-         ++contador;
210-     }
211-     else{
212-         std::cout << contador << " Monedas/Billetes de a " << denominacion << std::endl;
213-         contador = 1;
214-         denominacion = i;
215-     }
216-     std::cout << contador << " Monedas/Billetes de a " << denominacion << std::endl;
217- }
218-
219- Cambio& devolverCambioVoz(DineroCirculante& denominaciones, uint total_a_devolver){
220-     auto *cambio_devuelto = new Cambio;
221-     unsigned int por_pagar = 0;
222-     int x = 0;
223-     while(por_pagar != total_a_devolver){
224-         x = mayorDenominacion(denominaciones, total_a_devolver, por_pagar);
225-         if(x){
226-             return *cambio_devuelto;
227-         }
228-         else{
229-             cambio_devuelto->push_back(x);
230-             por_pagar += x;
231-         }
232-     }
233-     return *cambio_devuelto;
234- }
235-
236- int mayorDenominacion(DineroCirculante& denominaciones, uint total_a_devolver, uint por_pagar){
237-     for(auto& i : denominaciones)
238-         if(i + por_pagar <= total_a_devolver)
239-             return static_cast<int>(i);
240-     return 0;
241- }
```

Input

```
1 Monedas/Billetes de a 1
Tiempo Ejecucion creacion de tabla (micro segundos): 9.726

Para devolver 642 -----|
80 Monedas/Billetes de a 8
2 Monedas/Billetes de a 1
Tiempo Ejecucion creacion de tabla (micro segundos): 7.829

...Program finished with exit code 0
Press ENTER to exit console.
```

Activar Windows  
Ve a Configuración para activar Windows.