

COMPILADOR MINGW  
NANO  
2023



Mingw-w64 is an advancement of the original mingw.org project, created to support the GCC compiler on Windows systems. It has forked it in 2007 in order to provide support for 64 bits and new APIs. It has since then gained widespread use and distribution.

The development and community are very active and welcoming with new contributors every month and simple installers.



Table of contents

- Headers, Libraries and Runtime
- Tools
- Friend projects
- Some Projects using Mingw-w64

## Headers, Libraries and Runtime

- More than a million lines of headers are provided, not counting generated ones, and regularly expanded to track new Windows APIs.
- Everything needed for linking and running your code on Windows.
- Winthreads, a pthreads library for C++11 threading support and simple integration with existing project.
- Winstorecompat, a work-in-progress convenience library that eases conformance with the Windows Store.
- Better-conforming and faster math support compared to VisualStudio's.

## Tools

- gendef: generate Visual Studio .def files from .dll files.
- genidl: generate .idl files from .dll files.
- widl: compile .idl files.

Baixe desse link  
Pois já e de 32 e 64 bits

★★★★★ Avaliação: 4,2 · 167 votos · Gratuito · Windows · Utilitários/Ferramentas

[Browse /Installer](#) · [MinGW](#) · [Files](#) · [Browse /Installer/mingw-get at...](#)

<https://sourceforge.net> › [projects](#) ▼ [Traduzir esta página](#)

## [MinGW-w64 - for 32 and 64 bit Windows - SourceForge](#)

The **mingw**-w64 project is a complete runtime environment for gcc to support binaries native to Windows 64-bit and 32-bit operating systems.

Programming Language: Unix Shell, C++, C

★★★★★ Avaliação: 4 · 115 votos · Gratuito · Windows

Va nesse lugar files

(658) YouTube x (658) Como Instalar o Compilador x MinGW-w64 - para download do x +

sourceforge.net/projects/mingw-w64/

SourceForge

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software ou solução: Q

Lar / Navegar / Desenvolvimento de software / Compiladores / MinGW-w64 - para Windows de 32 e 64 bits

MinGW-w64 - para Windows de 32 e 64 bits

Um ambiente de tempo de execução completo para gcc  
Trazido a você por: [jon\\_y](#), [ktietz70](#), [nightstrike](#)

115 avaliações

Downloads: 102.126 esta semana

Última atualização: 1 dia atrás

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O projeto mingw-w64 é um ambiente de tempo de execução completo para gcc para suportar binários nativos para sistemas operacionais Windows de 64 bits e 32 bits.

32°C Pred. nu... 11:51



# MinGW-w64 - for 32 and 64 bit Windows Files

A complete runtime environment for gcc  
Brought to you by: [jon\\_y](#), [ktietz70](#), [nightstrike](#)

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<a href="#">Junk</a>	2021-07-01		0
<a href="#">Multilib Toolchains(Targetting Win32 and Win64)</a>	2016-05-19		27
<a href="#">mingw-w64</a>	2015-07-25		57,664
<a href="#">Cygwin Snapshots</a>	2013-07-07		0
<a href="#">3rd party development tools</a>	2012-08-07		2
<a href="#">External binary packages (Win64 hosted)</a>	2011-11-15		71

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ADManager  
Plus

ADManager Plus

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## Buscamos essas versões

 Toolchains targetting Win64	2011-05-06	22,391 
 Toolchains targetting Win32	2011-05-06	21,911 

powershell in C:\



C:\> gcc --version

gcc.exe (x86\_64-posix-seh-rev0, Built by MinGW-W64 project) 8.1.0

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warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

brito



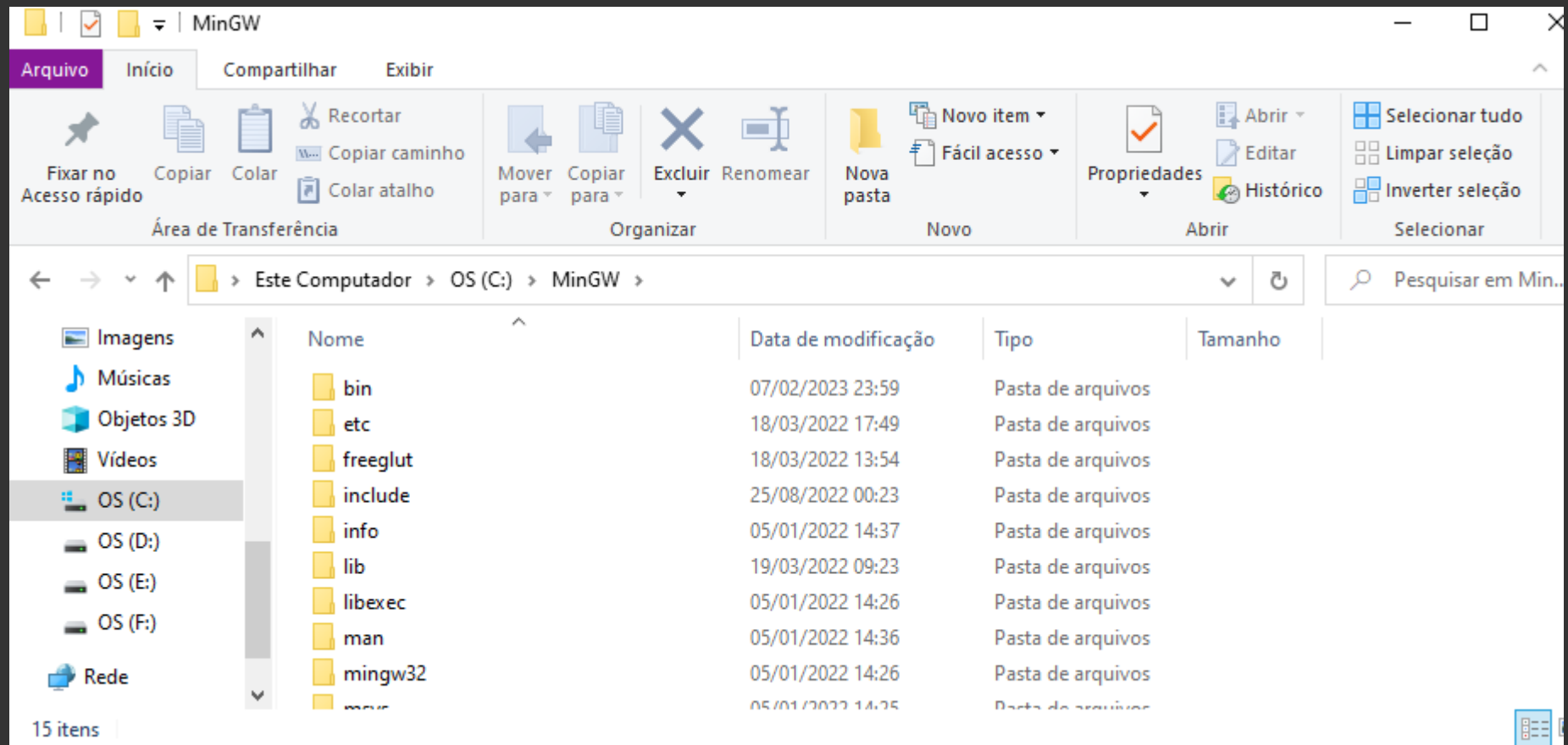
C:\



Vamos criar no c:  
A pasta MinGW  
E  
Dentro dela  
Duas pastas  
32bits e 64bits

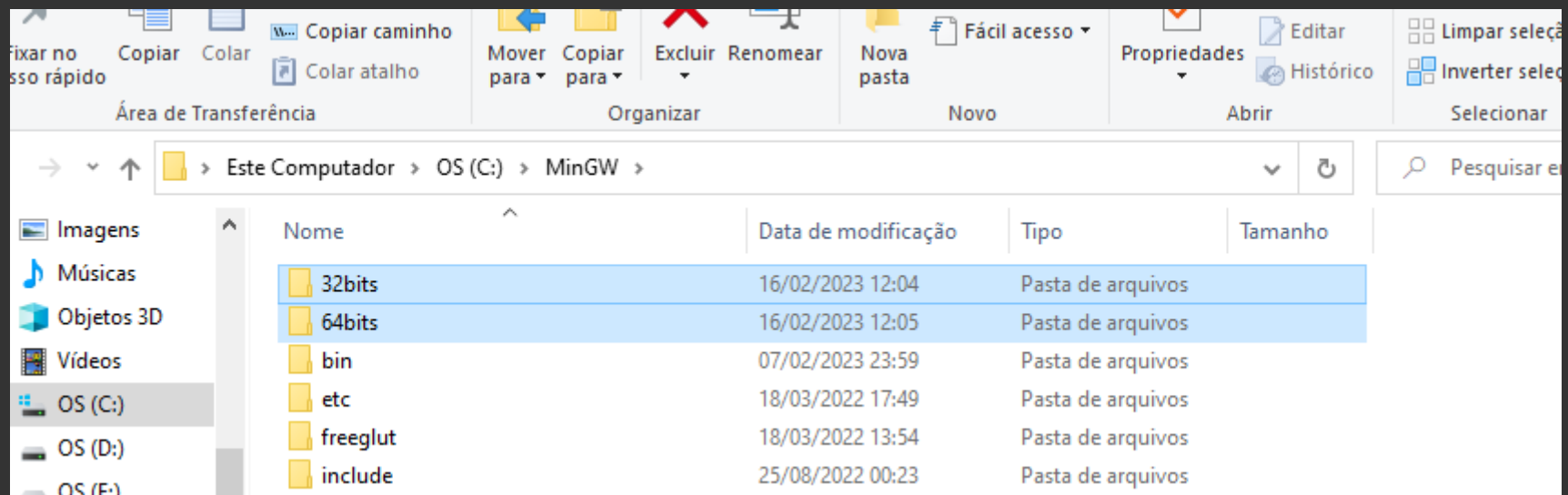


Eu já tenho ela  
Por isso só vou crias as  
Pastas de 32 e 64bits



Mas devo lembrar que ele fez uma instalação  
do zero deletando essa pasta

Criei as duas pastas  
Dentro da pasta do mingw  
Que eu já tinha



Click nesse link  
Vamos baixar algumas versões de  
64bits






 Toolchains targeting Win64

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Name	Modified	Size	Downloads / Week
 <a href="#">Parent folder</a>			
 <a href="#">Personal Builds</a>	2014-04-26		22,384 
 <a href="#">Automated Builds</a>	2014-01-21		7 
Totals: 2 Items			22,391

## MinGW-W64 Online Installer

- [MinGW-W64-install.exe](#)

## MinGW-W64 GCC-8.1.0


- [x86\\_64-posix-sjlj](#)
- [x86\\_64-posix-seh](#)

Agora e Concorra  
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**Abrir**











### Recommended Projects

 **MinGW - Minimalist GNU for Windows**  
A native Windows port of the GNU Compiler Collection...

 **MinGW-builds**  
Dual-target(32 & 64-bit)  
MinGW-W64 compilers for 3...

 **TDM-GCC MinGW Compiler**  
GCC for 32-bit and 64-bit  
Windows with a real installer ...

Depois de clicar aqui abre uma nova aba

Name 	Modified 	Size 	Downloads / Week 
 <a href="#">Parent folder</a>			
 <a href="#">Personal Builds</a> 	2014-04-26	22,384 	
 <a href="#">Automated Builds</a>	2014-01-21	7 	

Nessa aba que abriu clicamos aqui

📁 ray_linn	2020-10-20	2.164 
📁 mingw-builds 	2018-05-24	20.180 
📁 dongsheng-diariamente	30/05/2016	0
📁 sezero_4.5_20111101	20/03/2015	7 
📁 Experimental_Builds	19/11/2013	0
📁 rubenvb	2013-03-26	31 
📁 sezero_4.4_20111031	01/11/2011	2 
📁 megasoft78	2011-02-21	0
Totais: 8 itens		22.384

## Ele abre essa aba com Varias versões do mingw

sourceforge.net/projects/mingw-w64/files/Toolchains%20targetting%20Win64/Personal%20Builds/mingw-builds/

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Parent folder

8.1.0	2018-05-24	18,276	
7.3.0	2018-03-24	1,010	
4.9.4	2017-11-15	3	
7.2.0	2017-08-21	3	
6.4.0	2017-08-05	212	
7.1.0	2017-05-04	36	
6.3.0	2017-01-12	87	
6.2.0	2016-08-25	3	
5.4.0	2016-07-14	131	
6.1.0	2016-07-11	1	
5.3.0	2015-12-30	331	
4.9.3	2015-08-04	9	

Clube Max Pontos Bradesco.  
Guarde dinheiro e concorra a prêmios.  
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**Recommended Projects**

- MinGW - Minimalist GNU for Windows**  
A native Windows port of the GNU Compiler Collection...
- MinGW-builds**  
Dual-target(32 & 64-bit)  
MinGW-W64 compilers for 3...
- TDM-GCC MinGW Compiler**

32°C Pred. nu... 12:12

Clique nelas para baixar a  
Versão

Clicando na versão ela vem pra esse link  
Devemos escolher esse

(659) YouTube

(659) Como Instalar o Compilador

MinGW-w64 - for 32 and 64


MinGW-w64 - for 32 and 64

MinGW-w64 - for 32 and 64

sourceforge.net/projects/mingw-w64/files/Toolchains%20targetting%20Win64/Personal%20Builds/mingw-builds/7.2.0/


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# MinGW-w64 - for 32 and 64 bit Windows Files

A complete runtime environment for gcc  
Brought to you by: [jon\\_y](#), [ktietz70](#), [nightstrike](#)







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 <a href="#">Parent folder</a>			
 <a href="#">threads-win32</a>	2017-08-21		2 
 <a href="#">threads-posix</a> 	2017-08-21		1 
Totals: 2 Items			3



Ele abre outro link devemos escolher esse

(659) YouTube

(659) Como Instalar o Compilador MinGW-w64 - for 32 and 64


MinGW-w64 - for 32 and 64

MinGW-w64 - para Windows

sourceforge.net/projects/mingw-w64/files/Toolchains%20targetting%20Win64/Personal%20Builds/mingw-builds/7.2.0/threads-posix/


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Nome ▾	modificado ▾	Tamanho ▾	Downloads / Semana ▾
Pasta Pai			
sjlj	15/11/2017		0
seh ←	15/11/2017		1 
Totais: 2 itens			1

Instalador on-line do MinGW-W64

# E finalmente chegamos no link Para download

sourceforge.net/projects/mingw-w64/files/Toolchains%20targetting%20Win64/Personal%20Builds/mingw-builds/7.2.0/threads-posix/seh/

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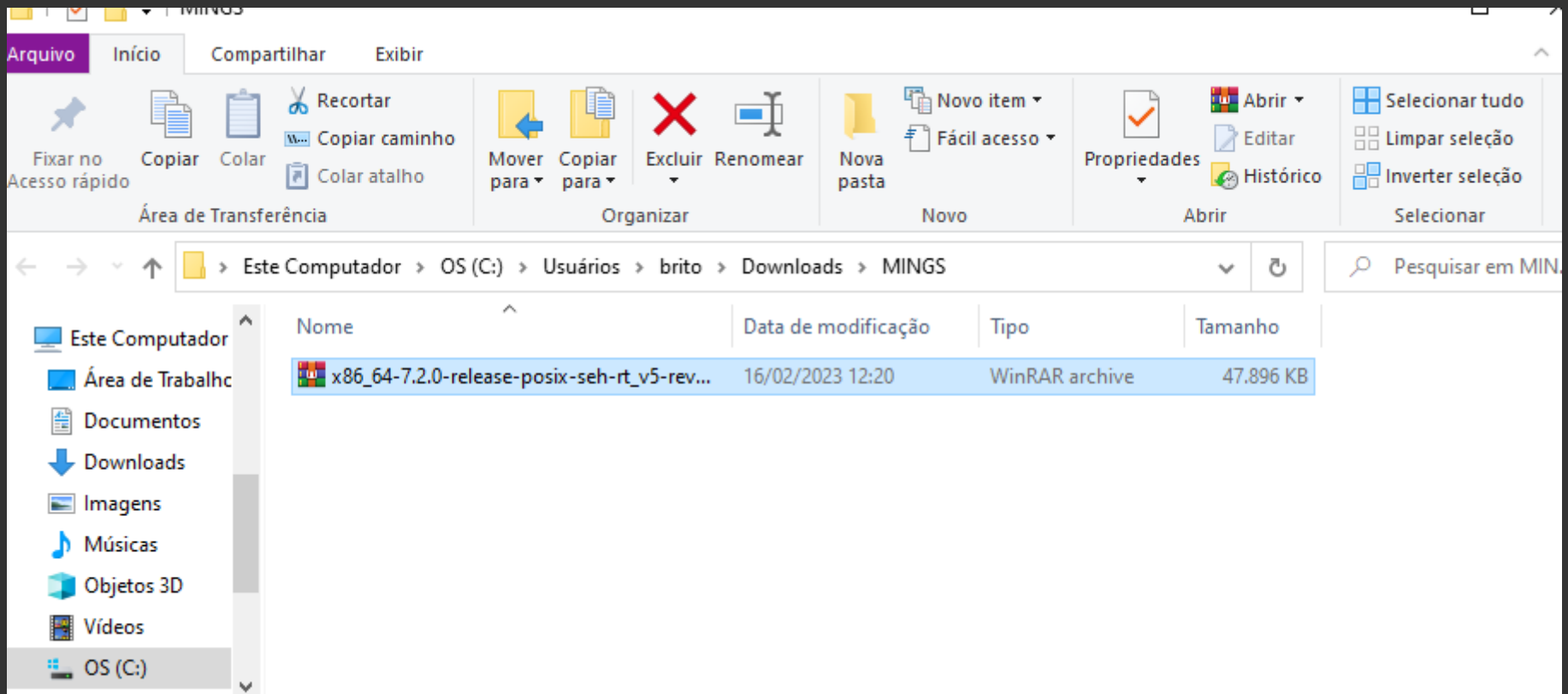
Home / Toolchains targetting Win64 / Personal Builds / mingw-builds / 7.2.0 / ... / seh

Name	Modified	Size	Downloads / Week
Parent folder			
x86_64-7.2.0-release-posix-seh-rt_v5-rev1.7z	2017-11-10	49.0 MB	1
x86_64-7.2.0-release-posix-seh-rt_v5-rev0.7z	2017-10-18	49.0 MB	0
Totals: 2 Items		98.0 MB	1

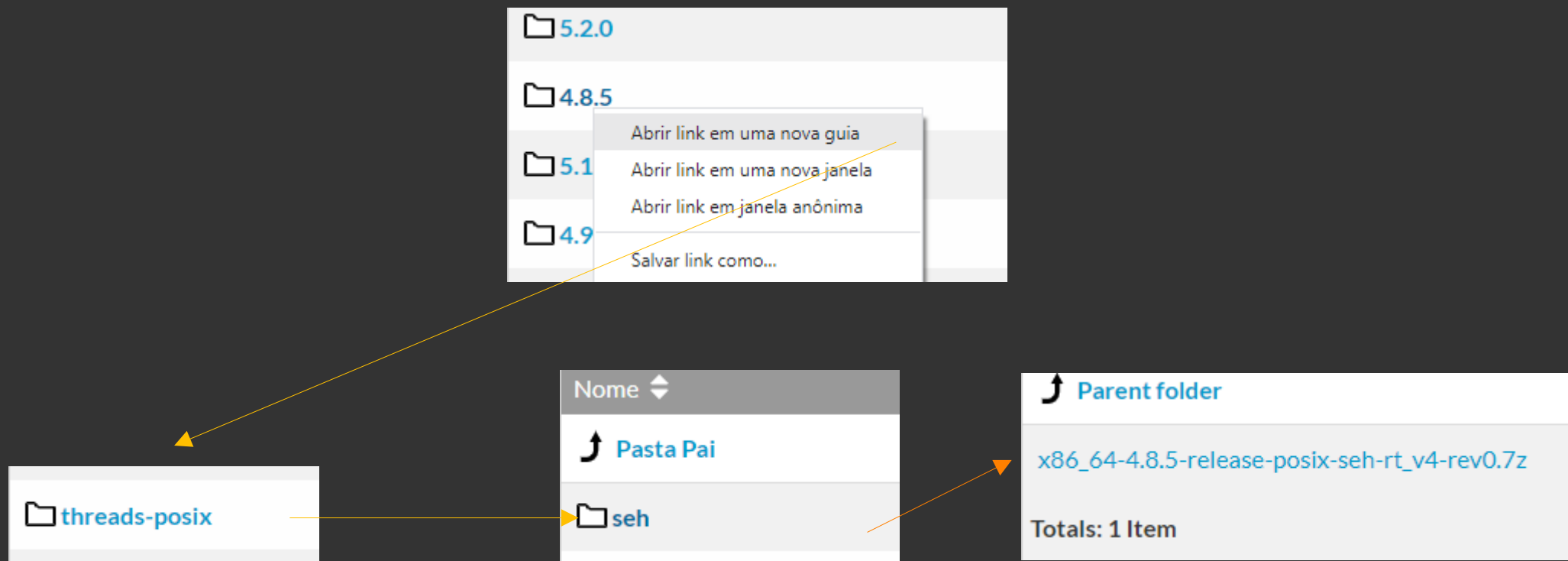
## MinGW-W64 Online Installer

- MinGW-W64-install.exe

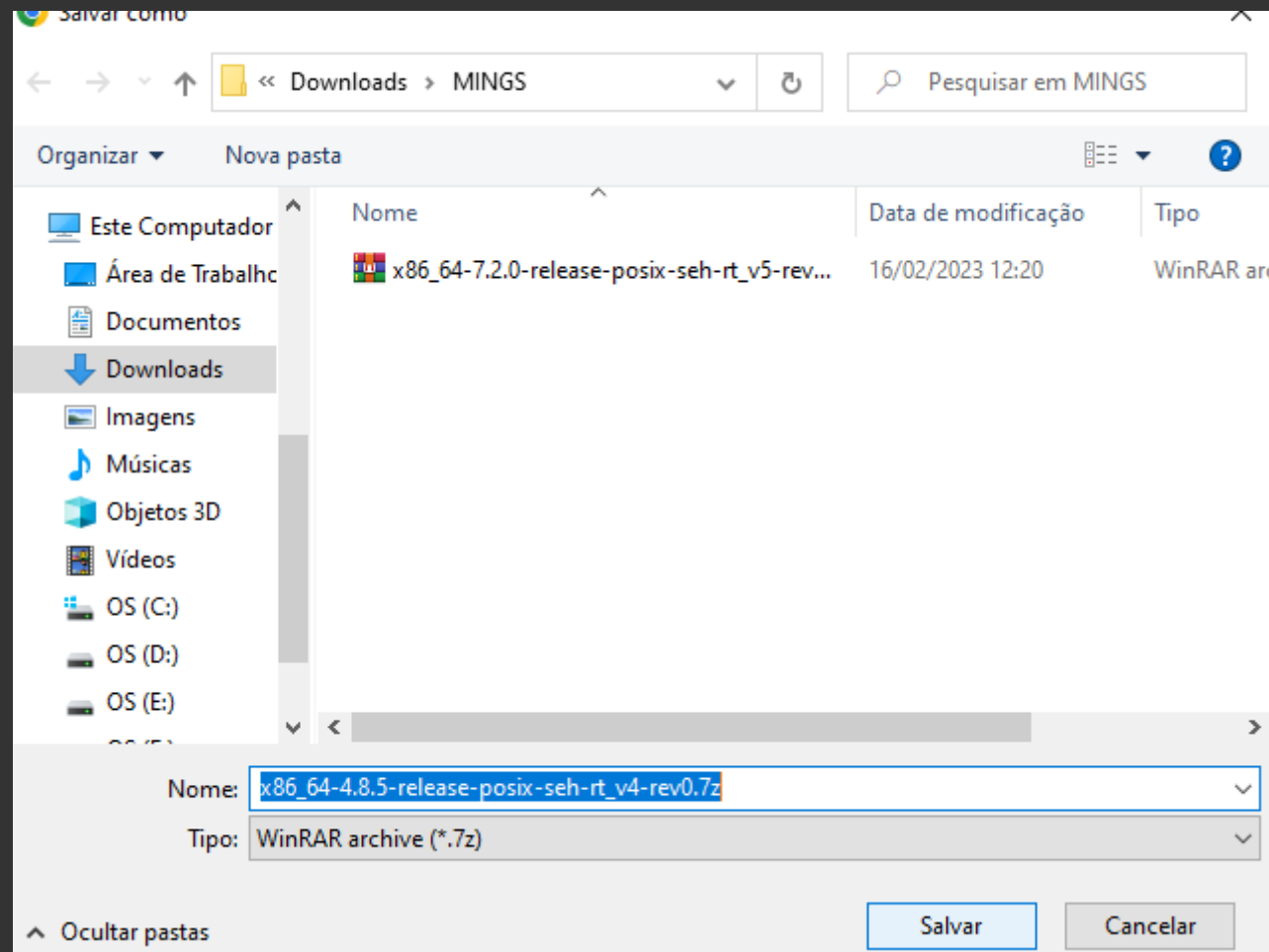
Criei uma pasta em downloads  
E  
Pra colocar os downloads

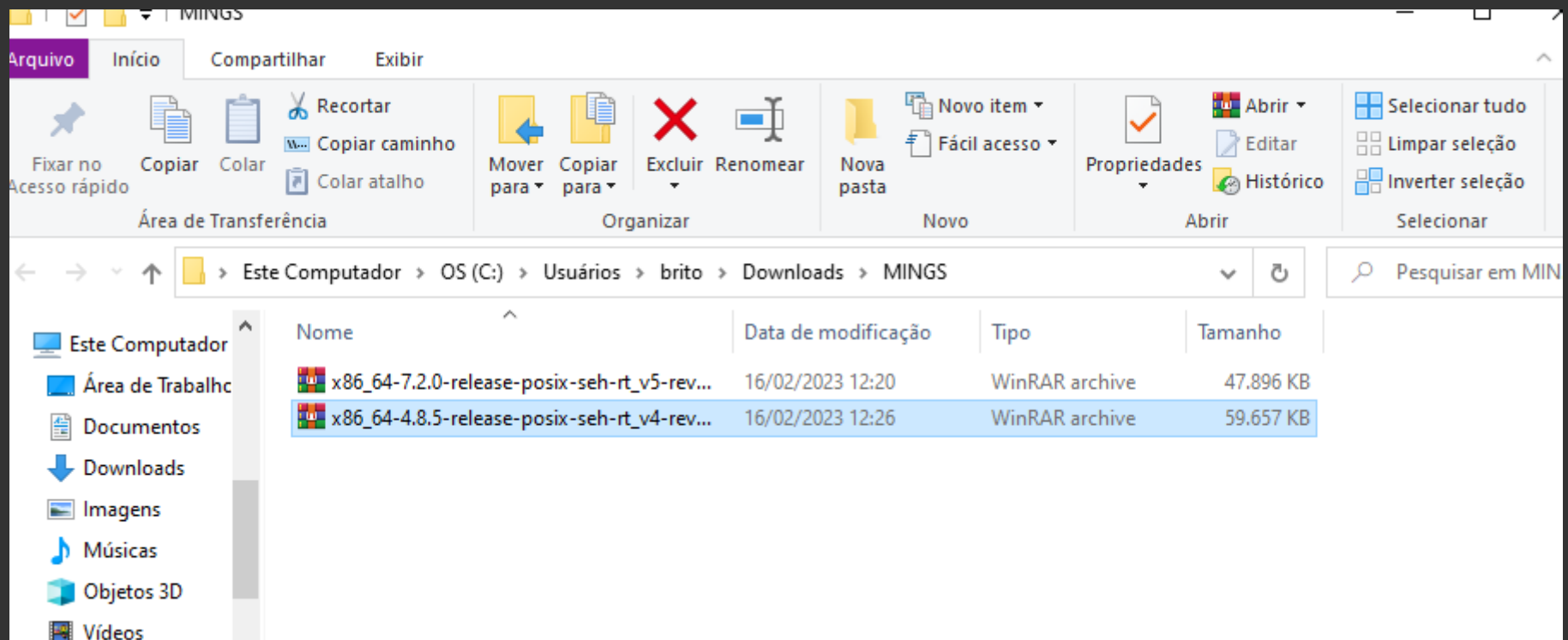


Vou baixar essa versão aí  
4.8.5










As setas estão na ordem dos cliques







## Vamos para as versões de 32bits

 [Toolchains targeting Win32](#)

Name 	Modified 	Size 	Downloads / Week 
 <a href="#">Parent folder</a>			
 <a href="#">Personal Builds</a>	2014-04-26		21,905 

 <a href="#">mingw-builds</a>	2018-05-24		21,899 
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# CHEGAMOS ONDE ESCOLHEREMOS AS VERSÕES

sourceforge.net/projects/mingw-w64/files/Toolchains%20targetting%20Win32/Personal%20Builds/mingw-builds/

Name	Modified	Size	Downloads / week
Parent folder			
installer	2018-05-24		19,466
8.1.0	2018-05-24		1,395
7.3.0	2018-03-24		495
4.9.4	2017-11-15		4
7.2.0	2017-08-21		2
6.4.0	2017-08-05		21
7.1.0	2017-05-04		0
6.3.0	2017-01-12		2
6.2.0	2016-08-25		0
5.4.0	2016-07-14		26
6.1.0	2016-07-11		1
5.3.0	2015-12-30		387

Ofertas válidas de 09/02 a 22/02/2023, enquanto durarem os estoques. BEBA COM MODERAÇÃO.

**RAHIM** Chopp  
3,99 cada

**Seara** Frango a Passarinho  
1 pct de Frango a Passarinho Seara 1kg

**Coração da Alcatra** Bovina Cong. Porcionado a Vácuo kg  
34,99 kg

Beef Club

URGENTE

12:31





8.1.0

Abrir link em uma nova guia

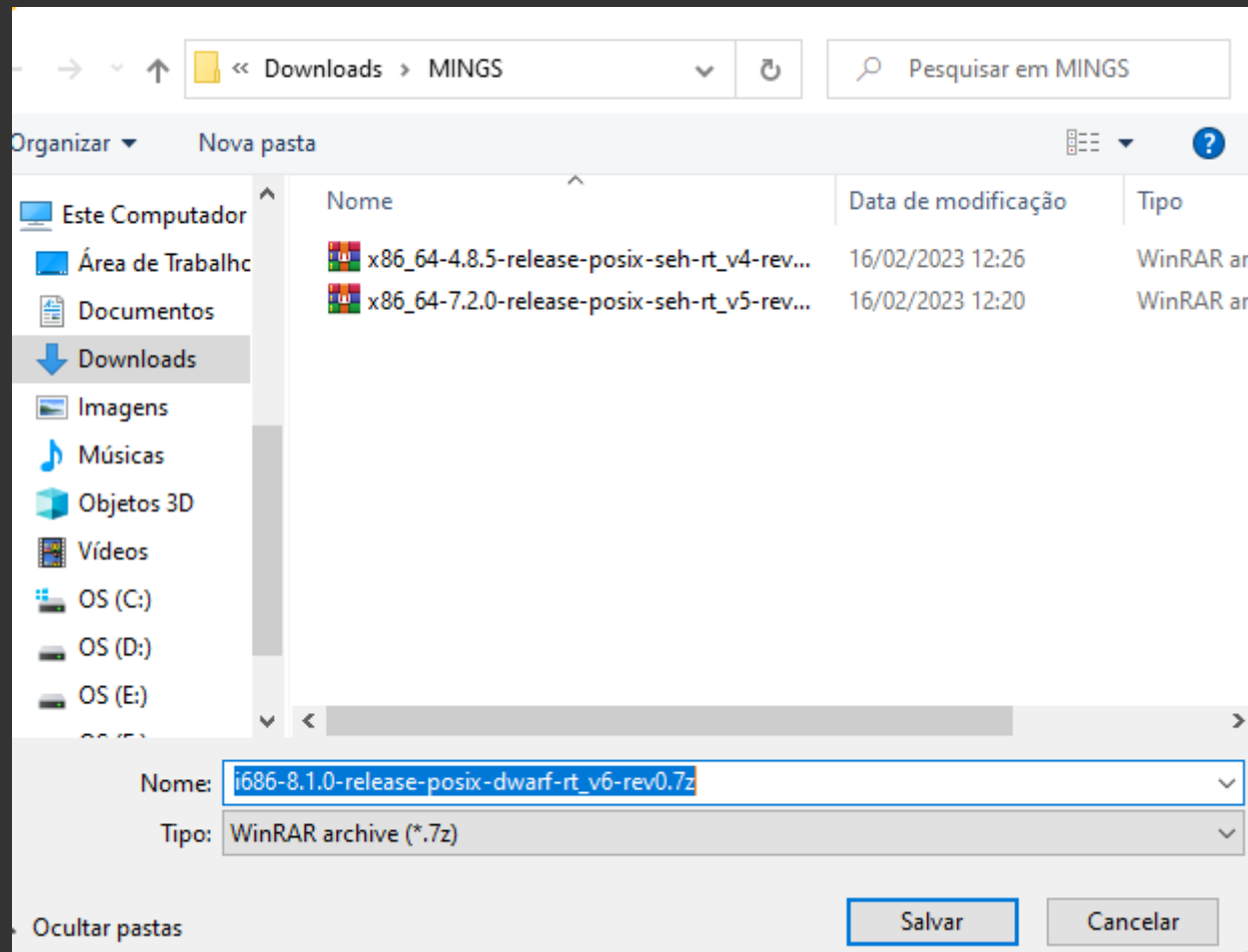


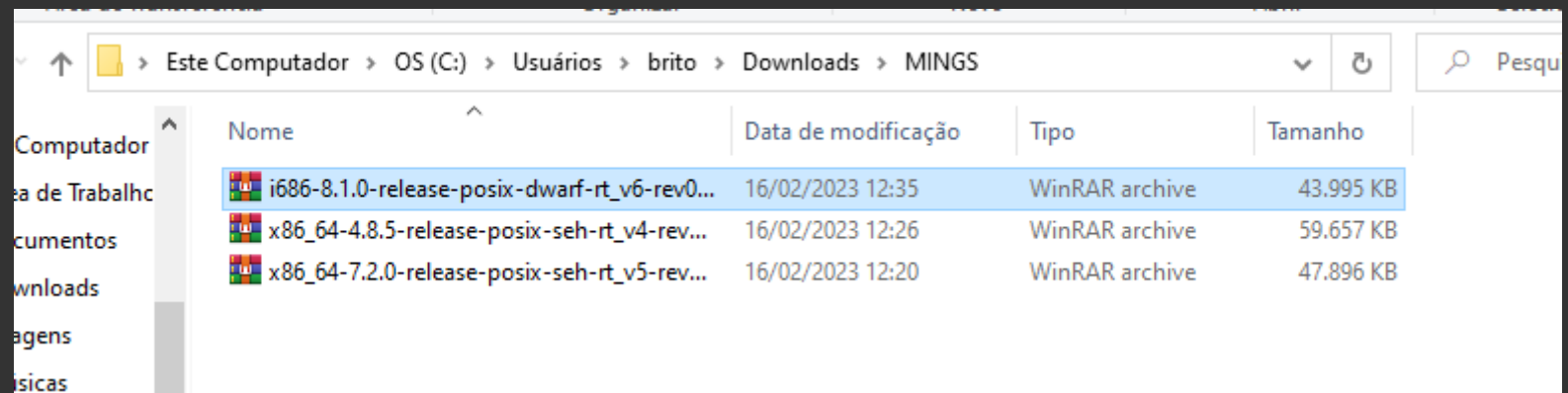
threads-posix



dwarf

i686-8.1.0-release-posix-dwarf-rt\_v6-rev0.7z







4.9.4

Abrir link em uma nova guia



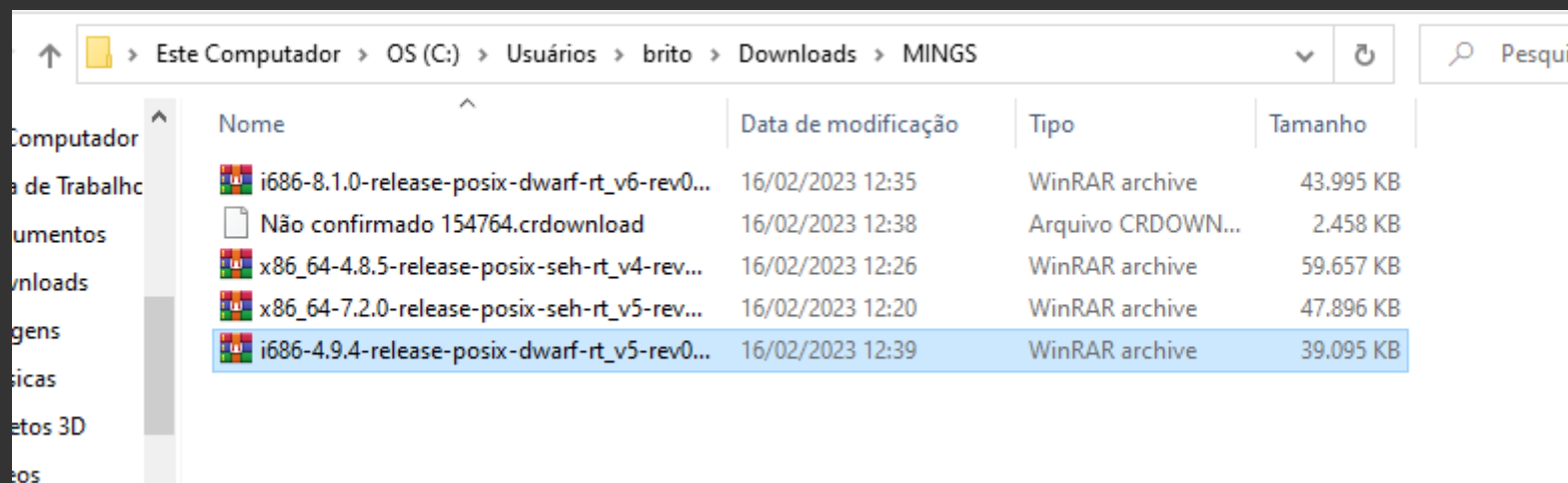
threads-posix



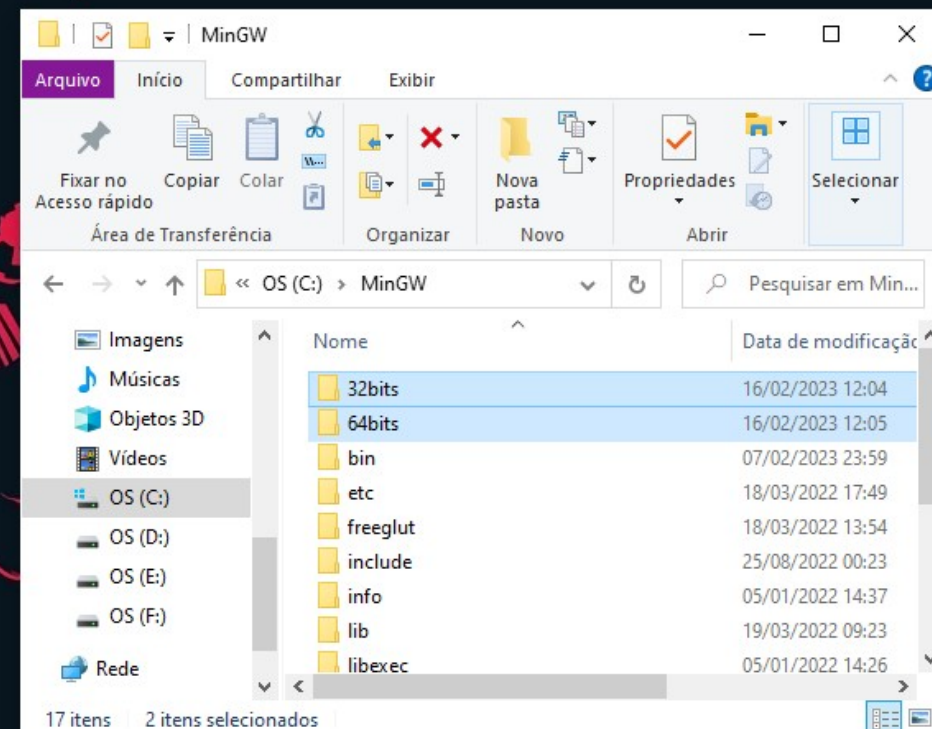
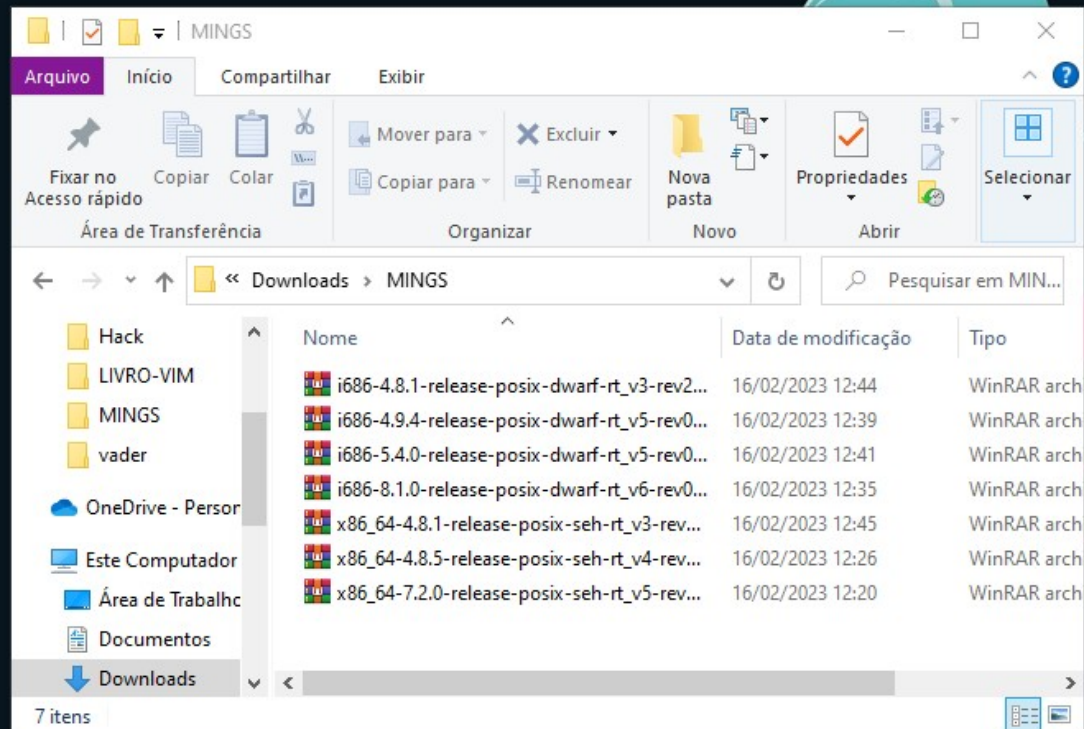
dwarf

i686-4.9.4-release-posix-dwarf-rt\_v5-rev0.7z

## Ordem dos clicks

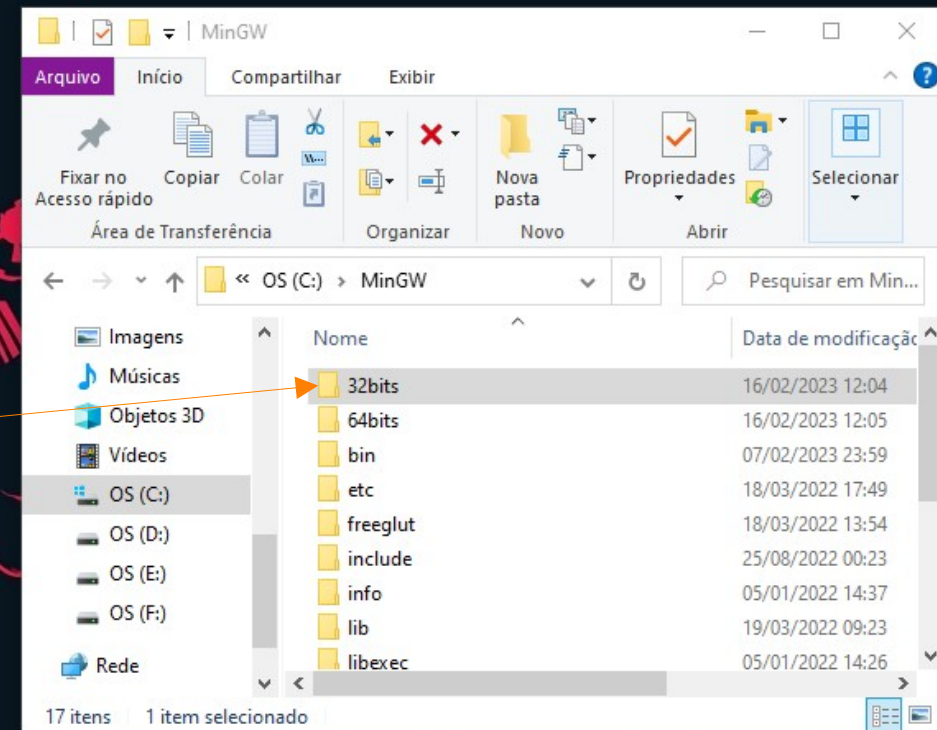
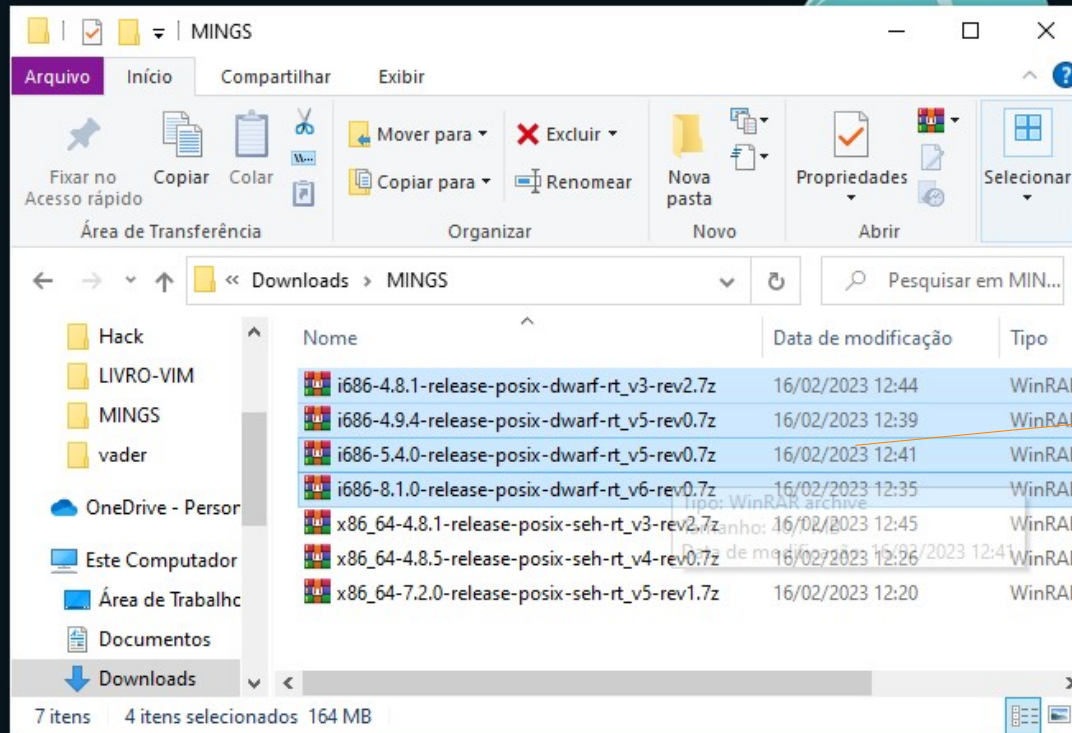


## Colocamos agora as versões de 32 e 64bits Cada em sua respectiva pasta



VII

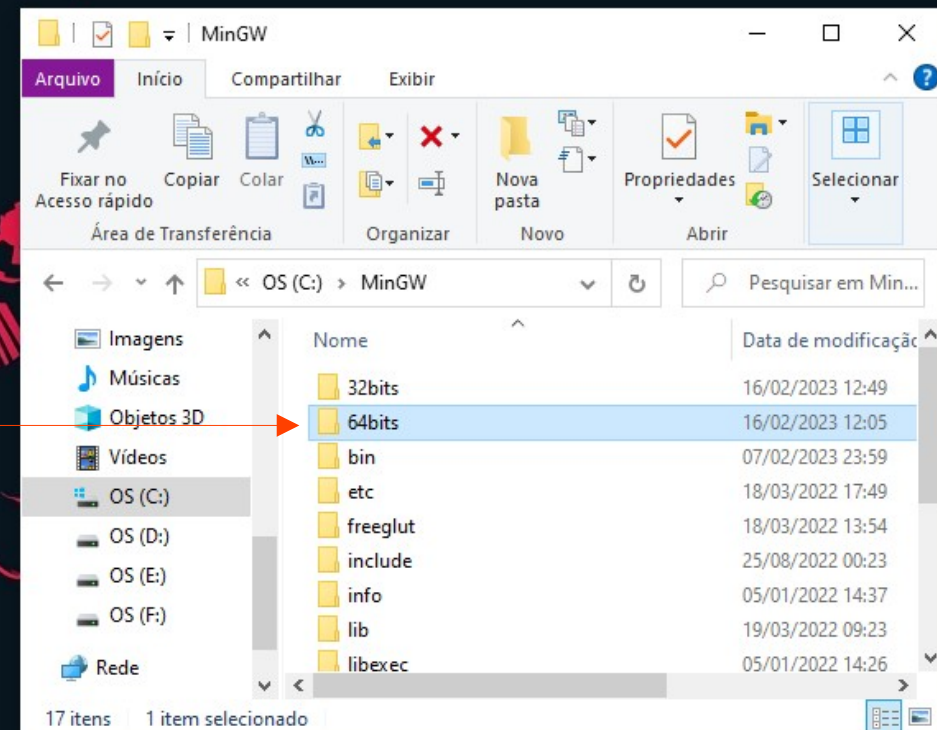
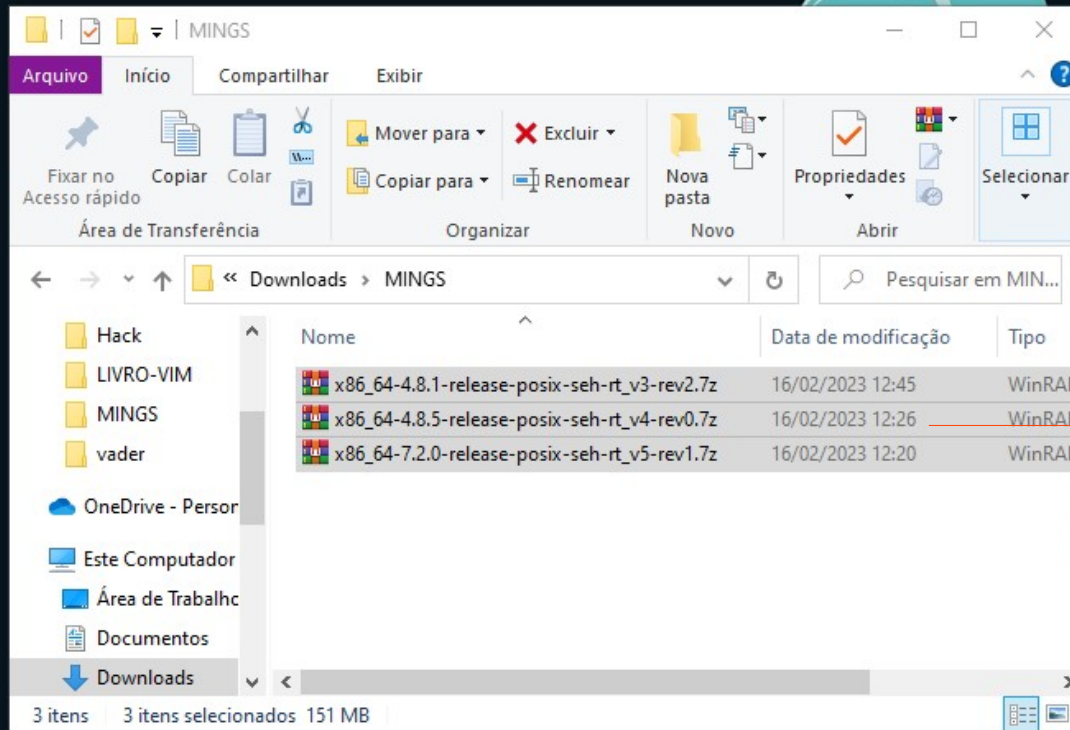
## Versões de 32 na pasta 32bits



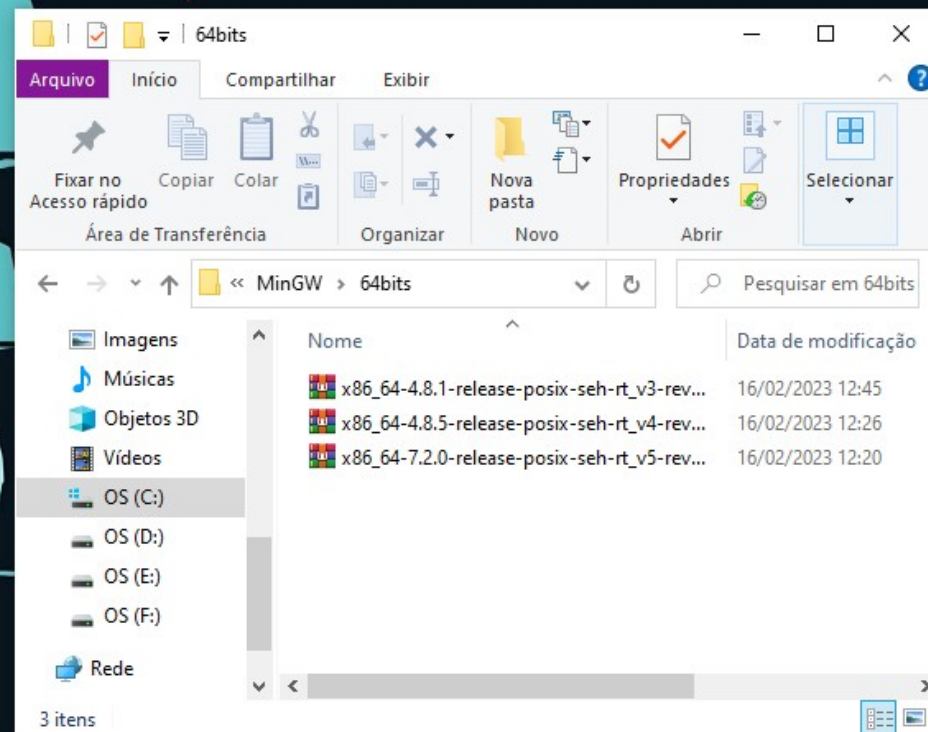
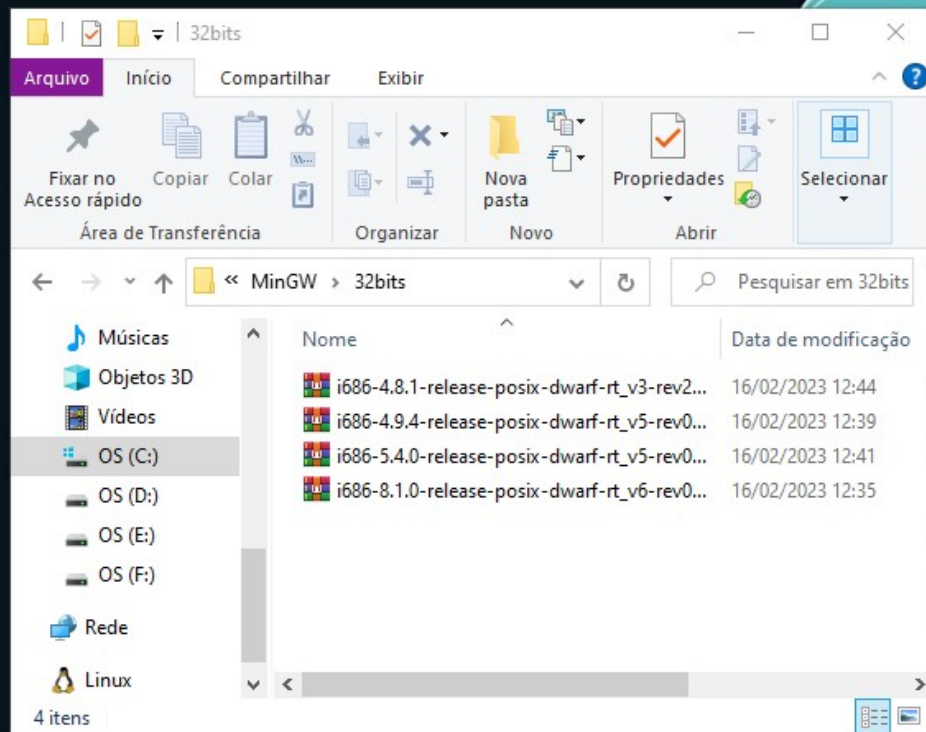
VII



## Versões 64bits Na pasta 64



VII

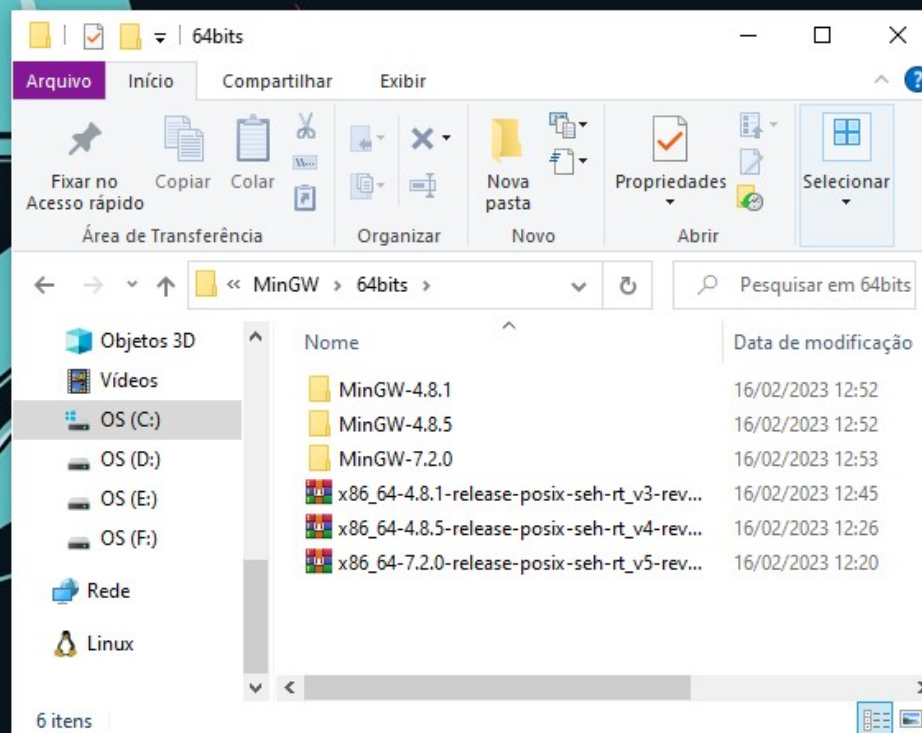
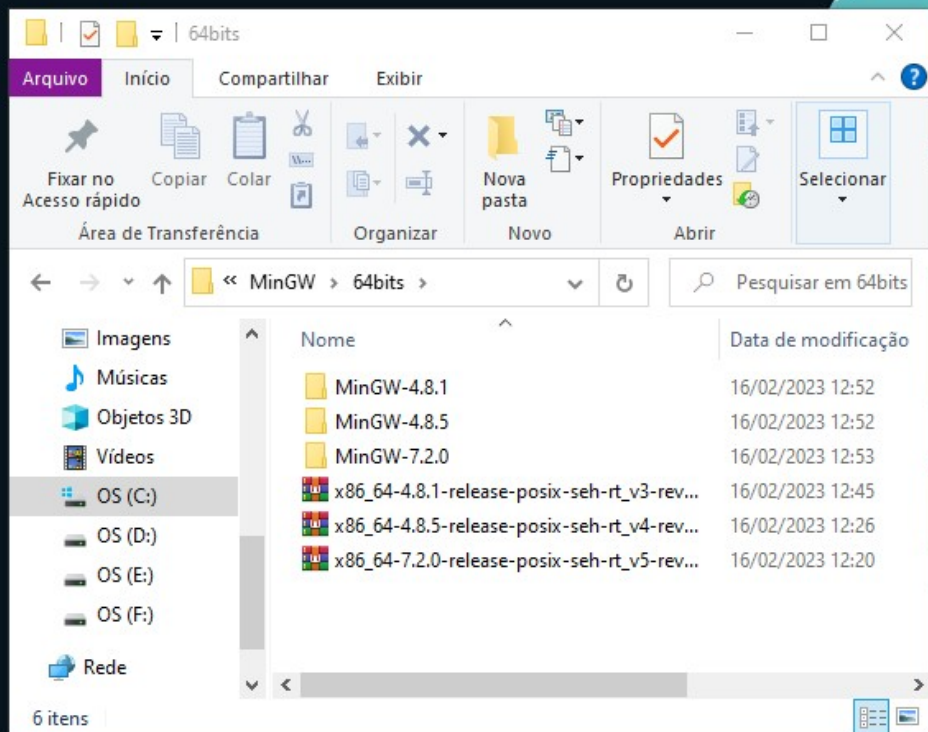


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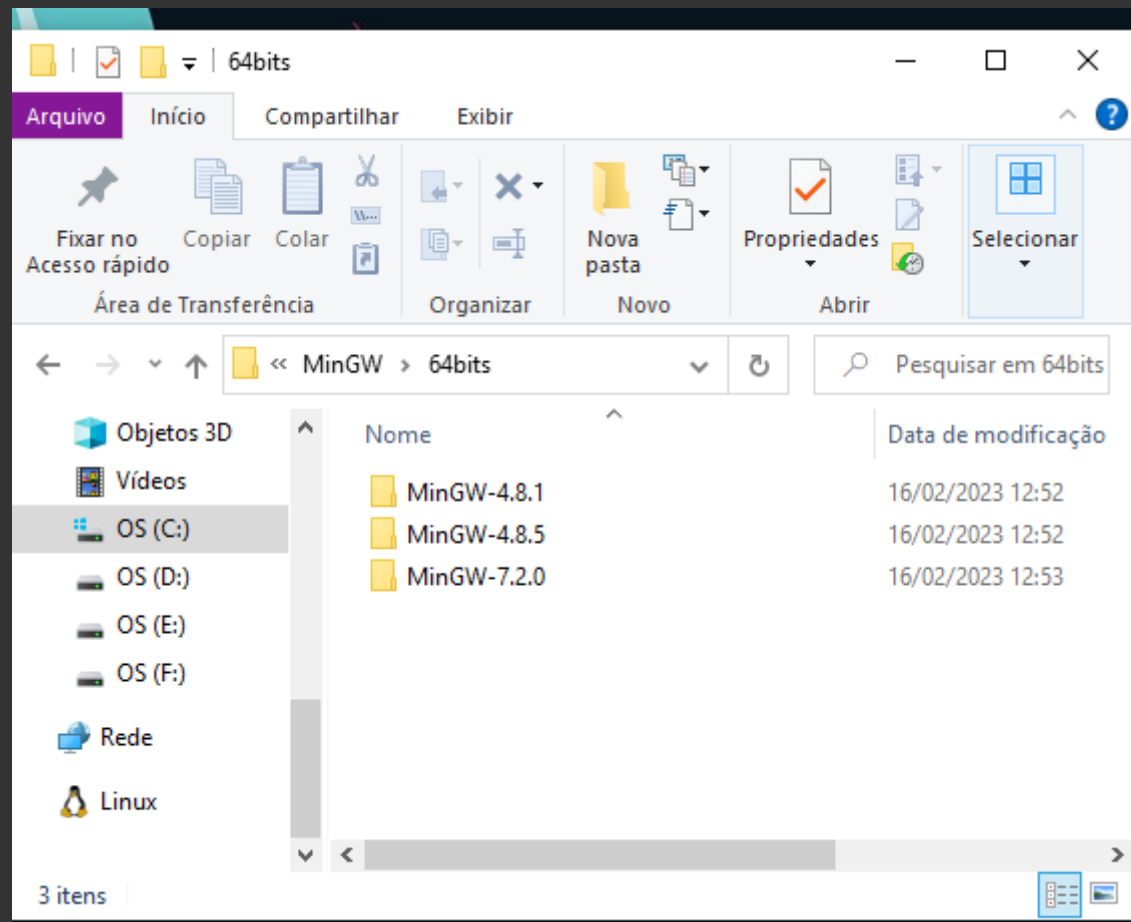




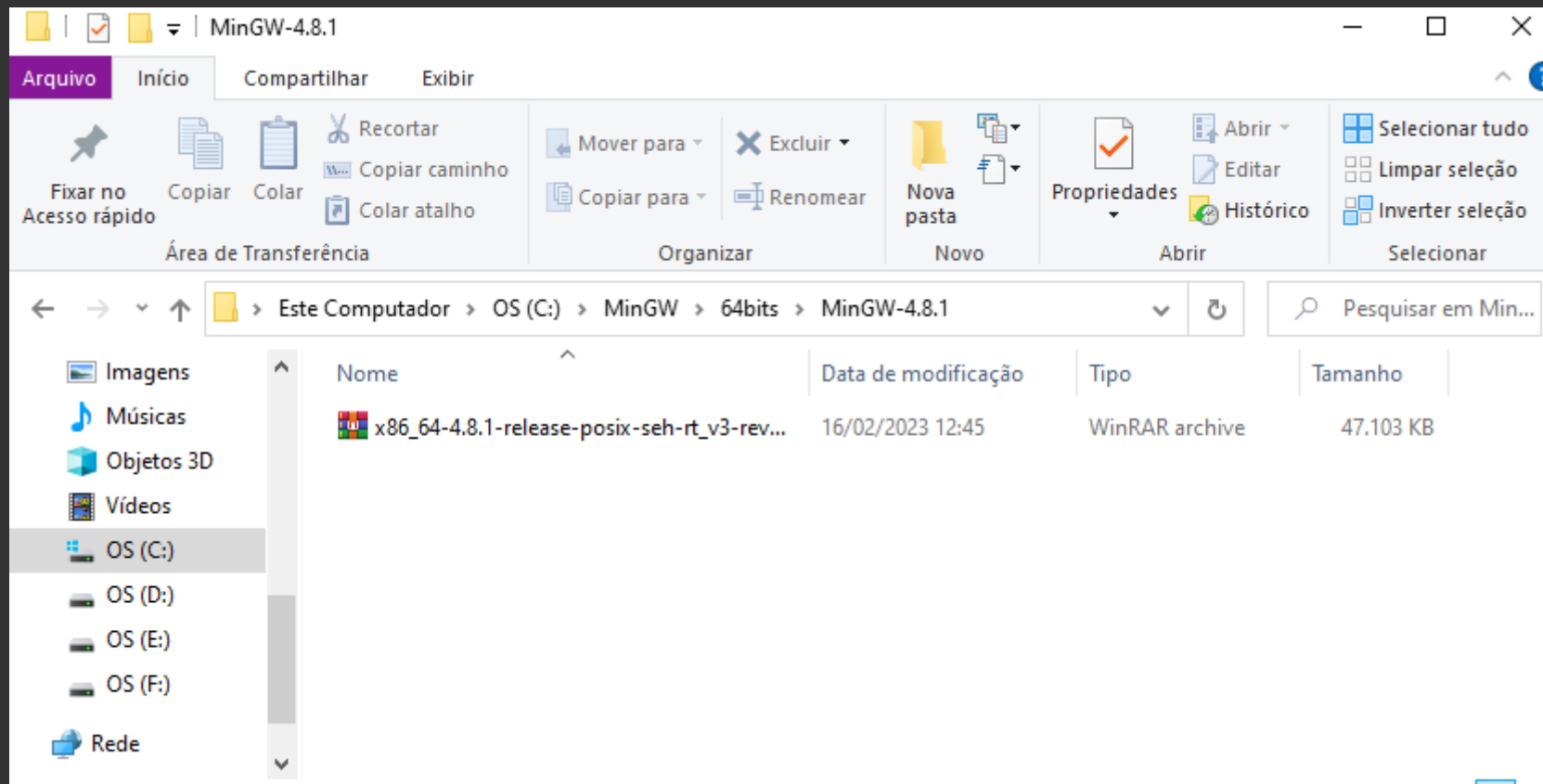
Dentro das pastas de 32 e 64bits  
Criamos as pasta com suas respectivas versões  
E colocamos os arquivos dentro



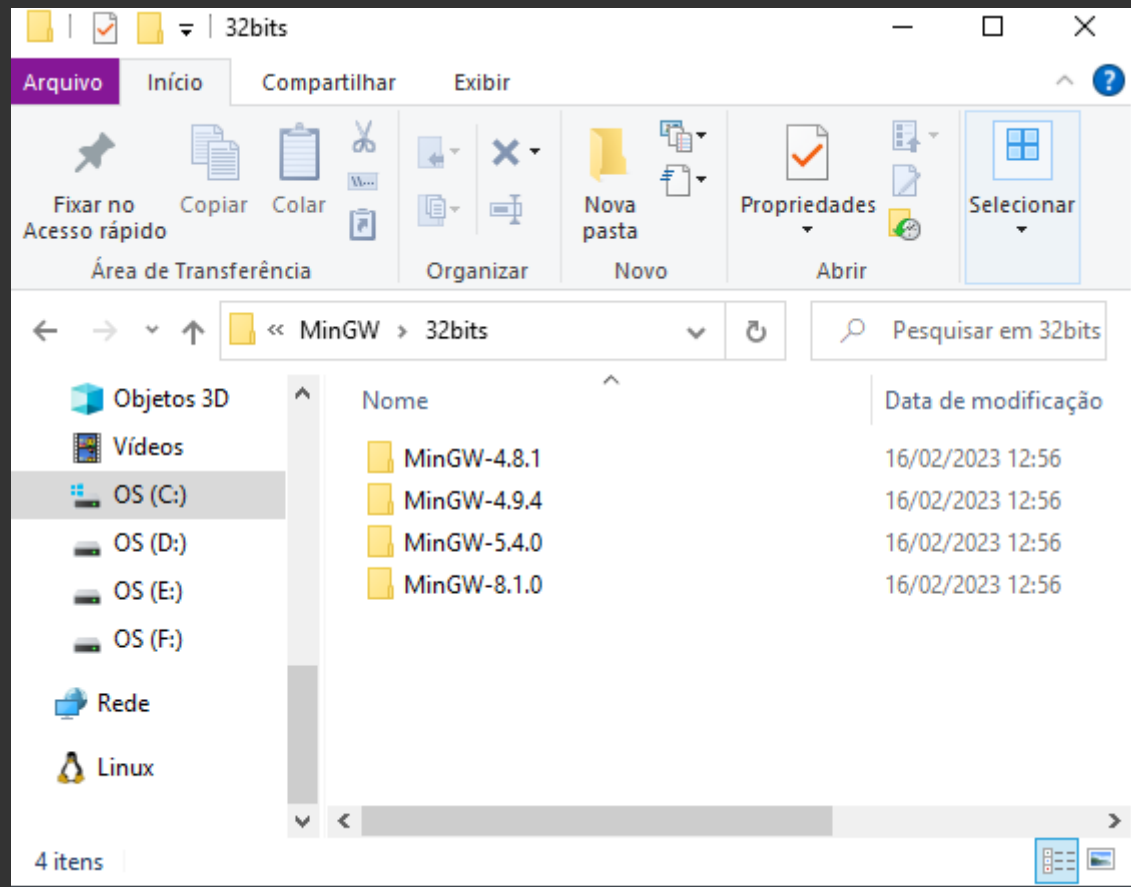
VII

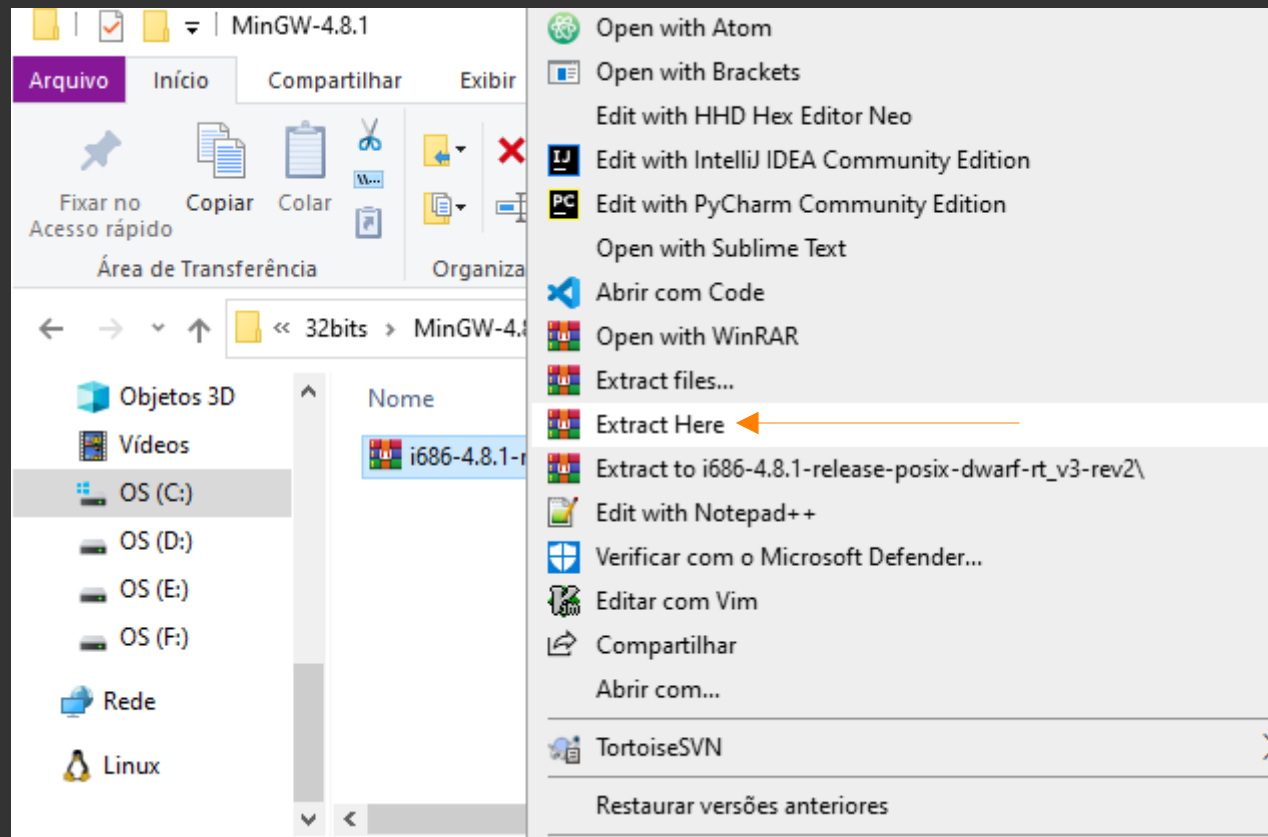


Só pra mostrar como fica

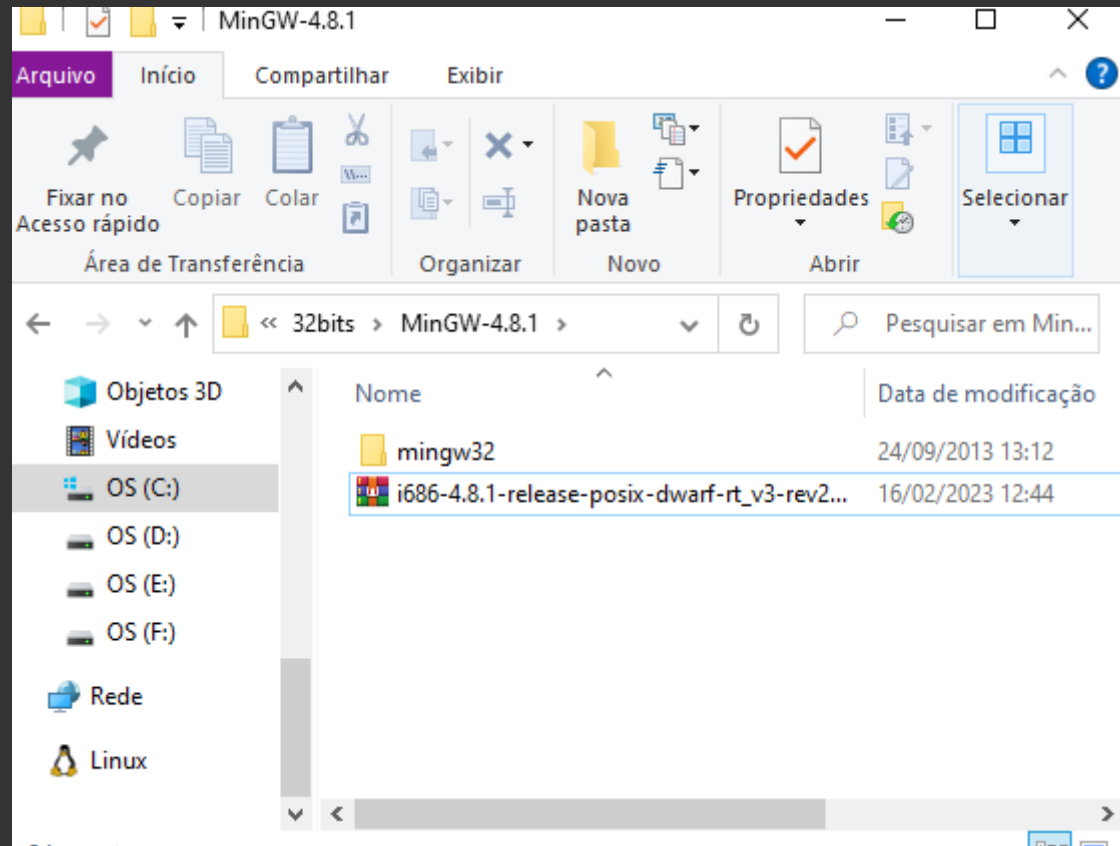


## Fazemos a mesma coisa pra 32bits

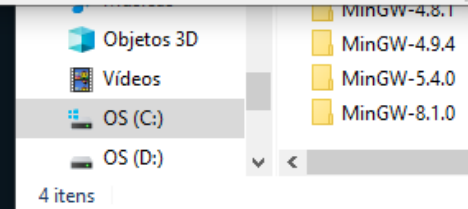
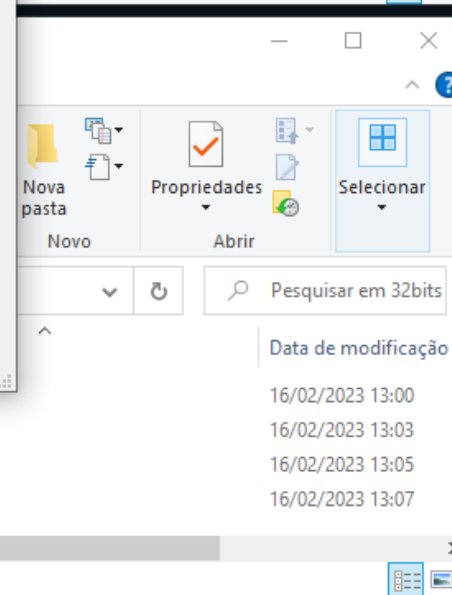
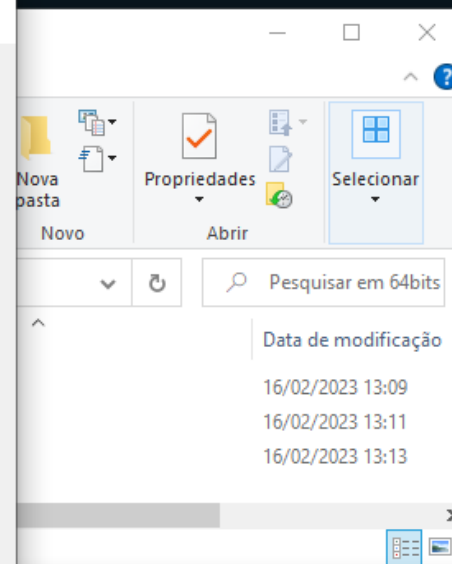
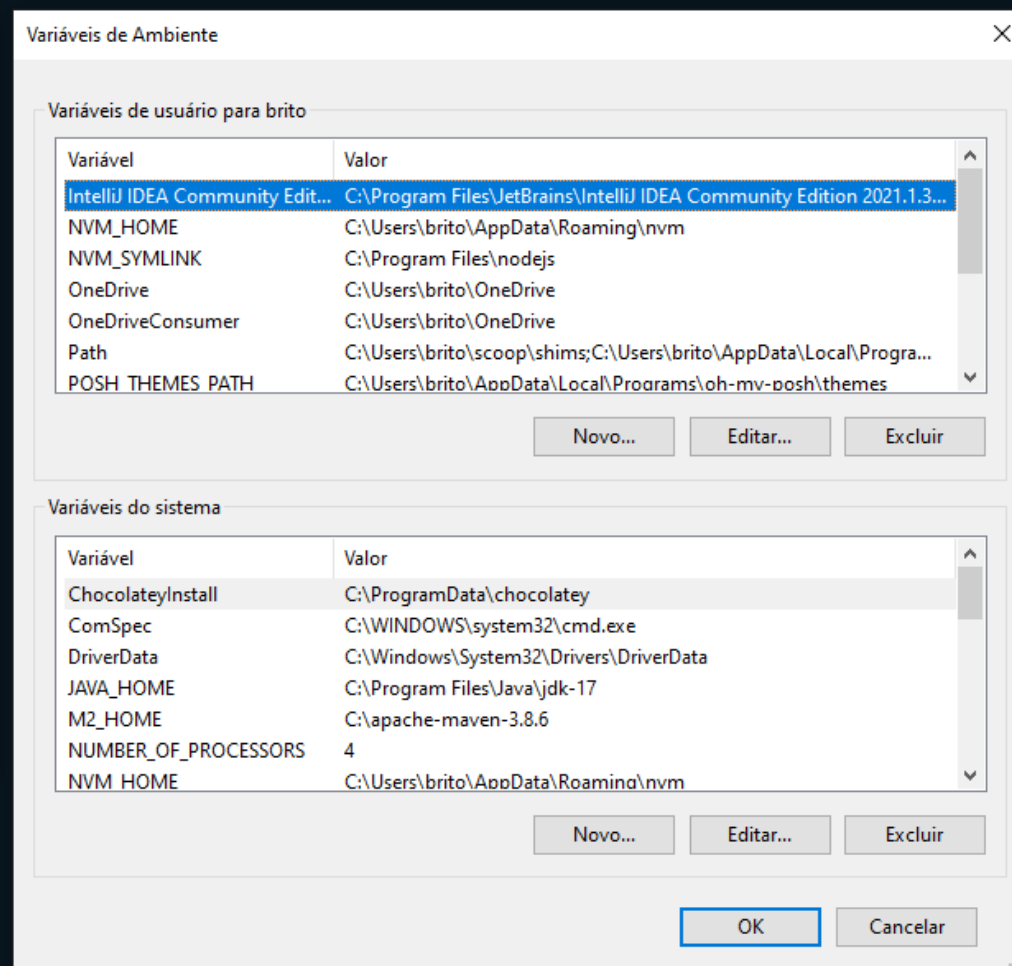
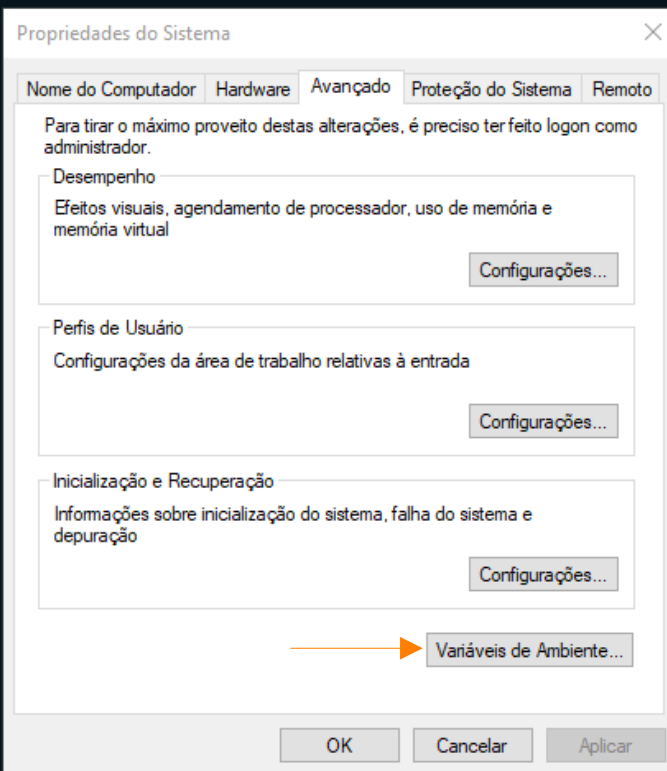




Descompact cada arquivo na sua respectiva pasta

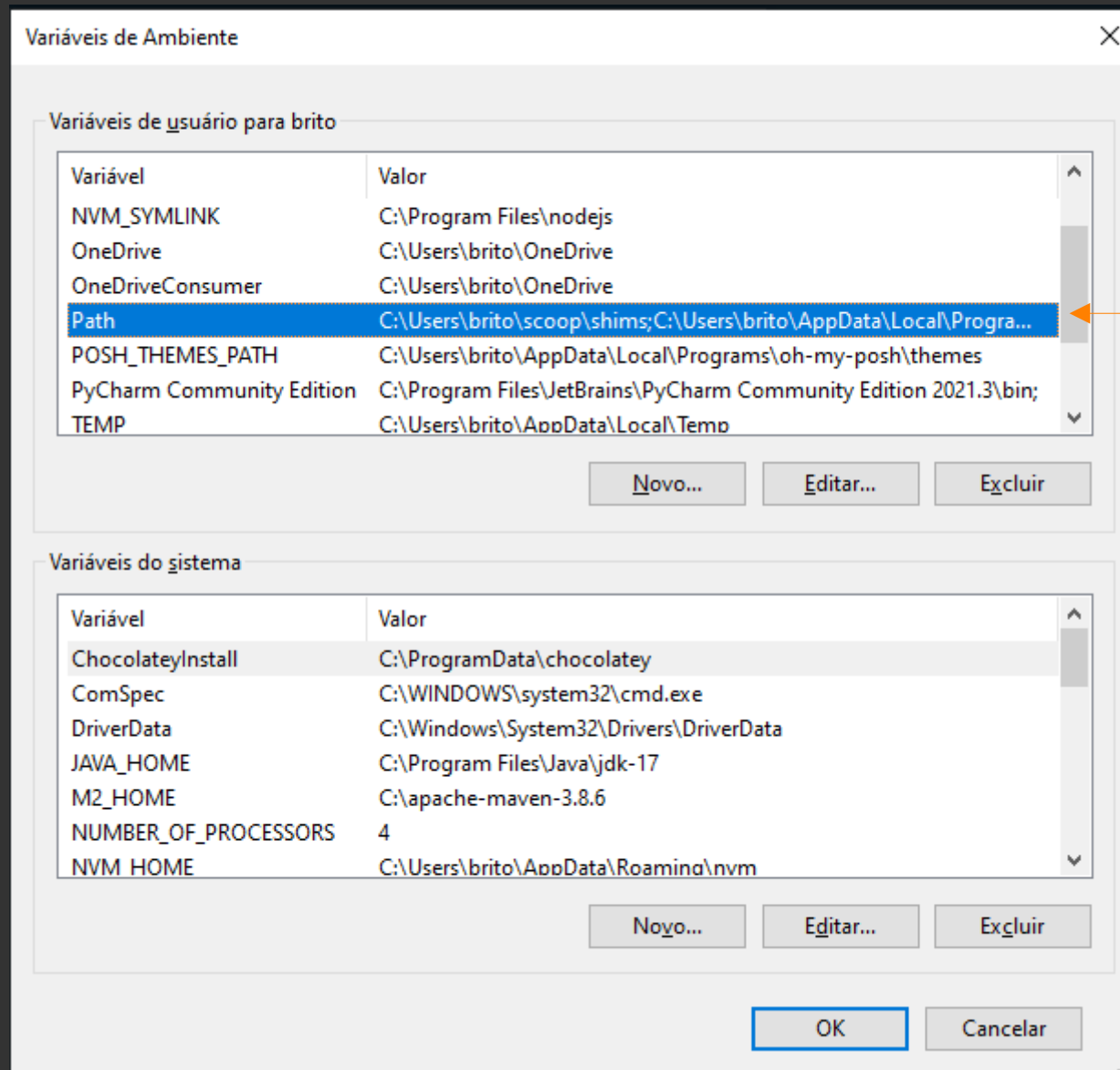


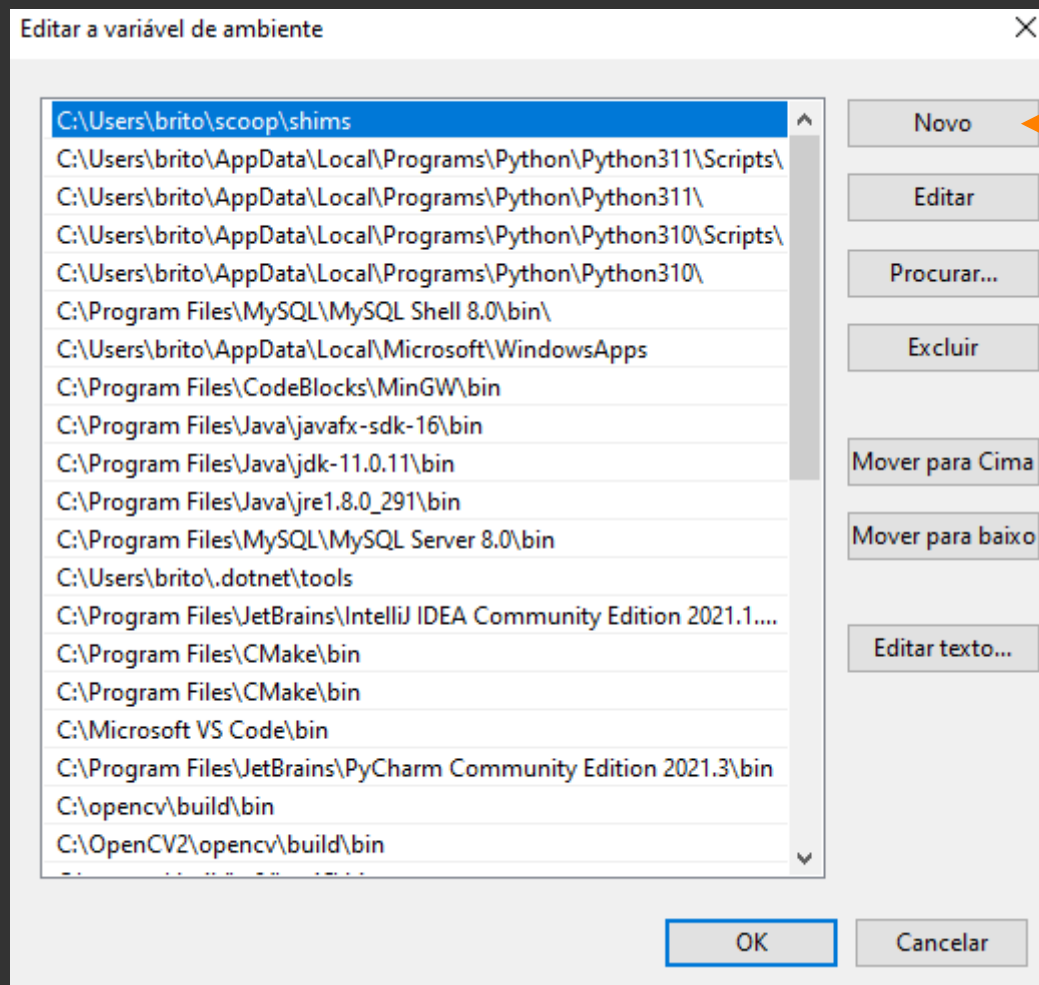
Agora adicionamos o caminho  
Das pastas bin  
Ao path do windows  
Nas variaveis de ambiente

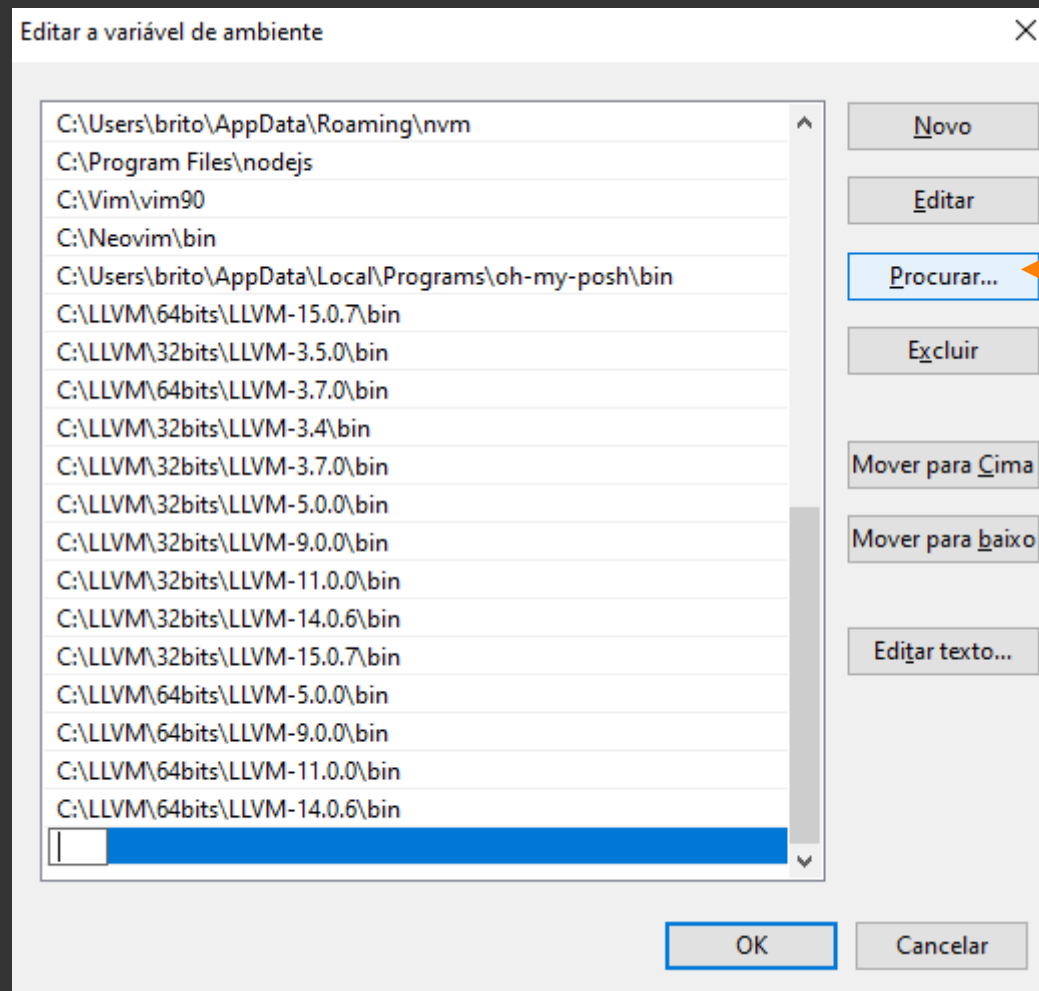




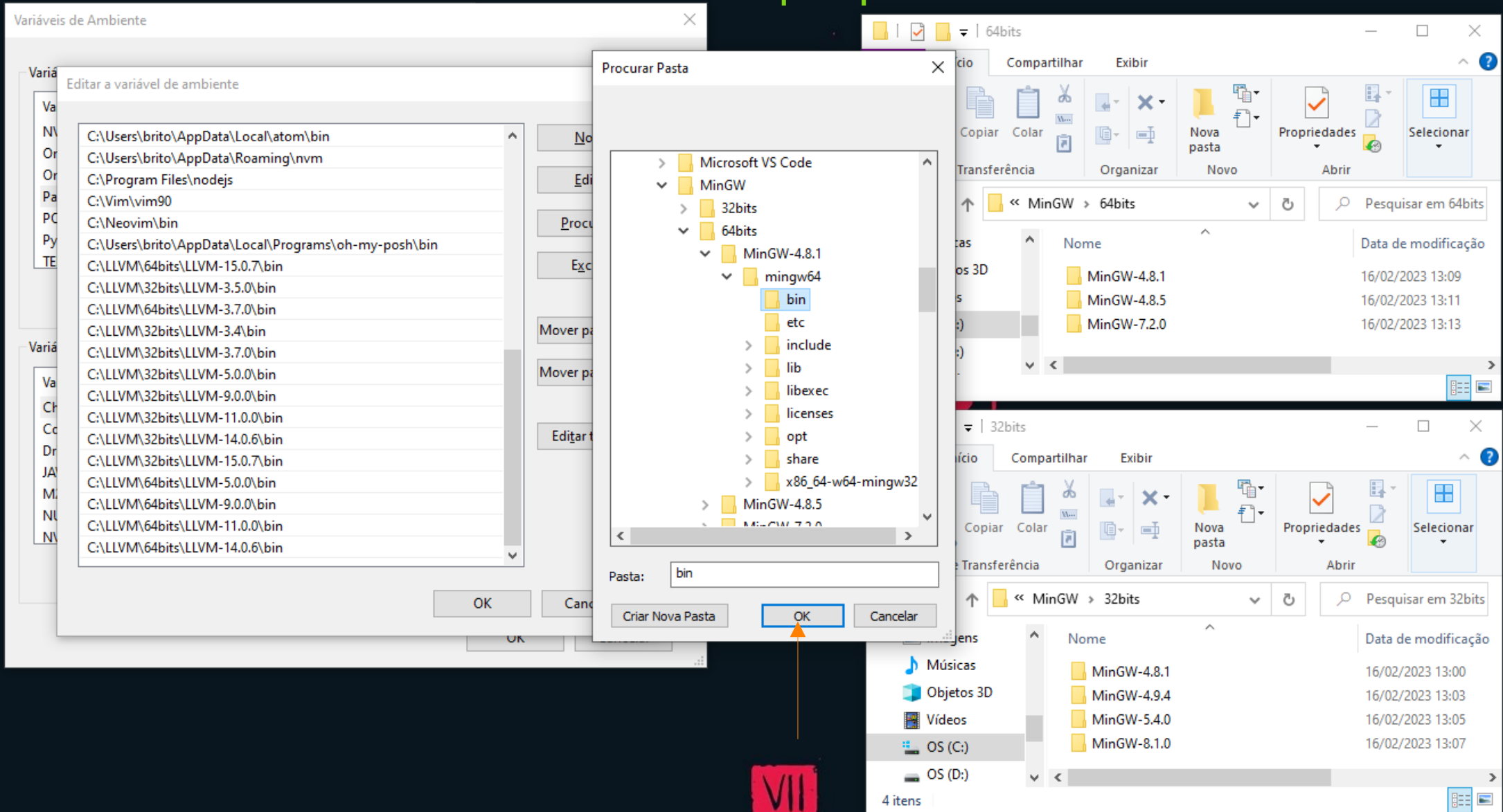
# Duplo click





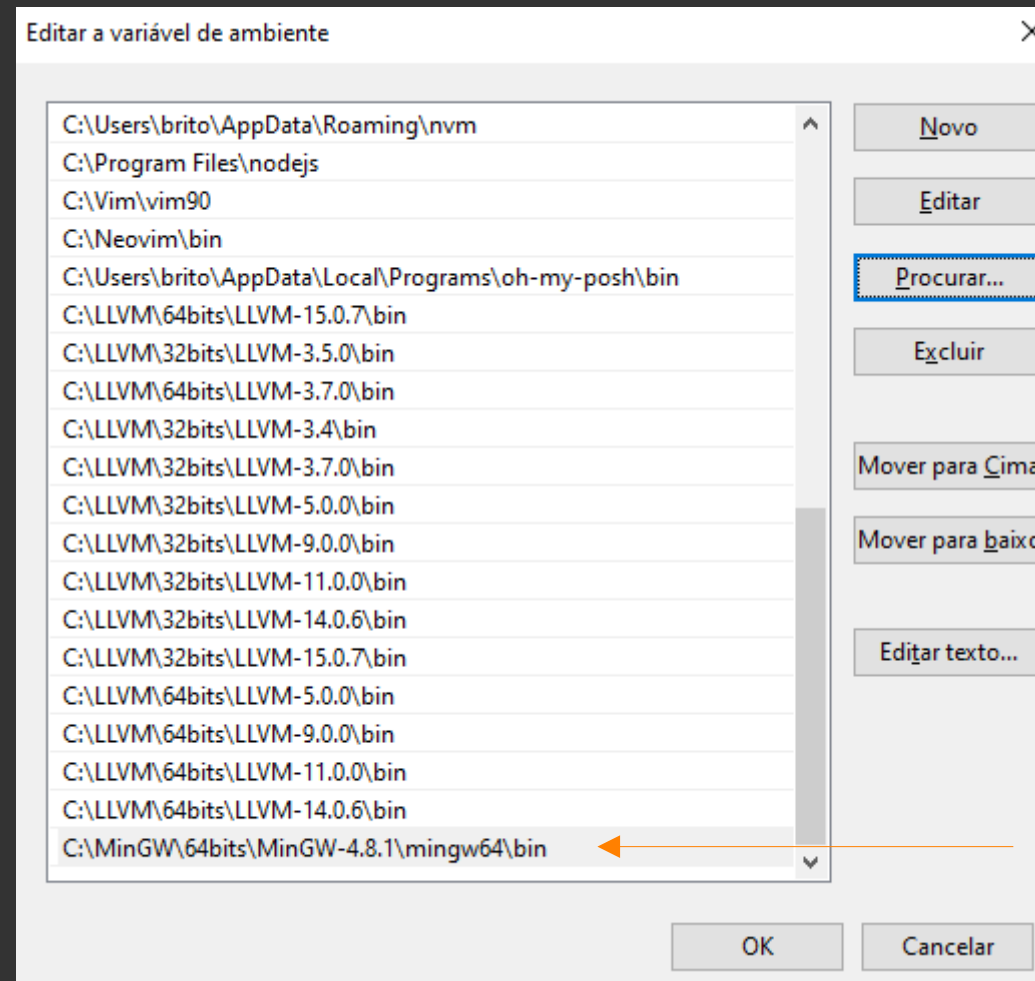


Escolhemos o caminho até a pasta bin  
Da versão que queremos

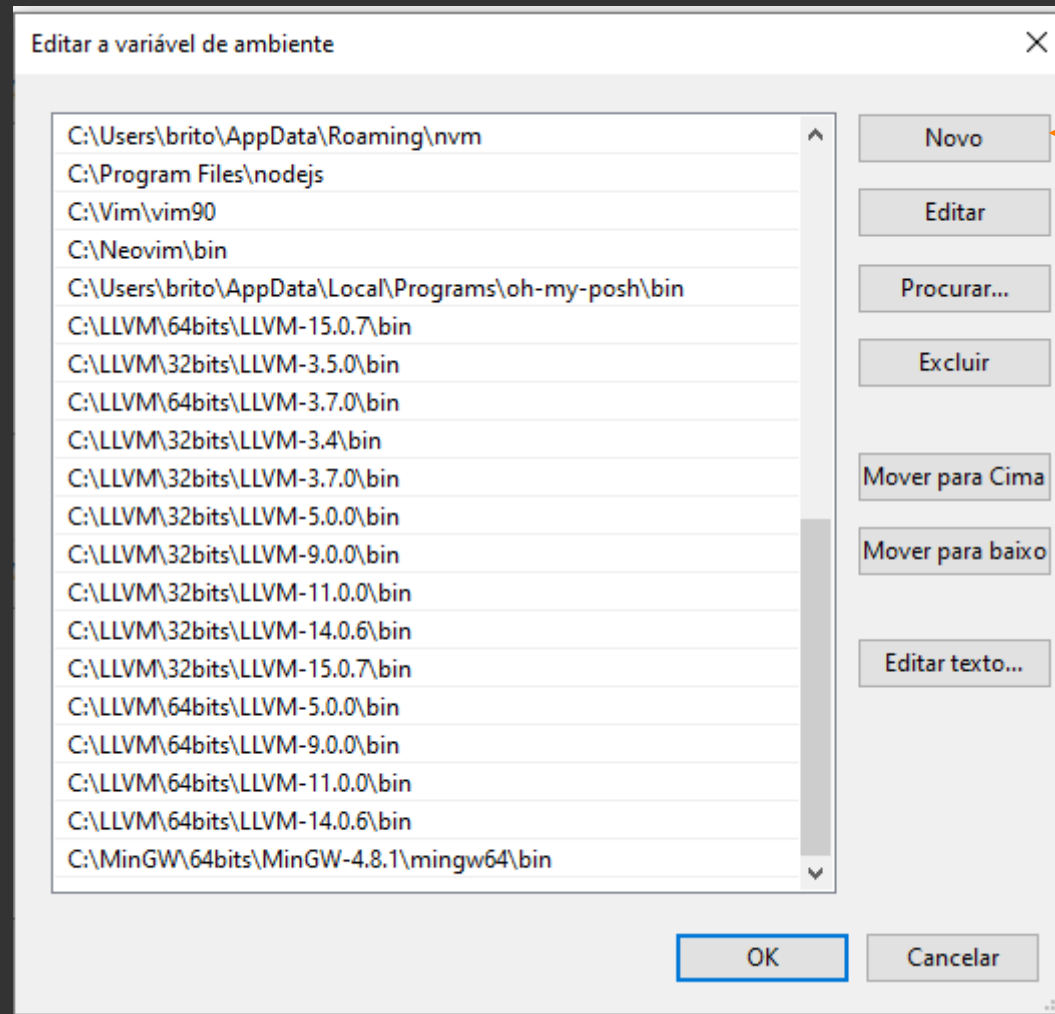


Repetimos isso para todas

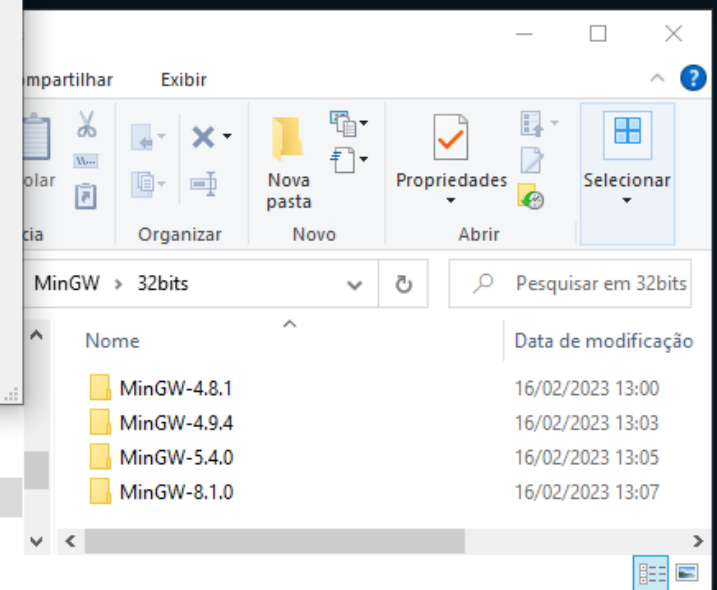
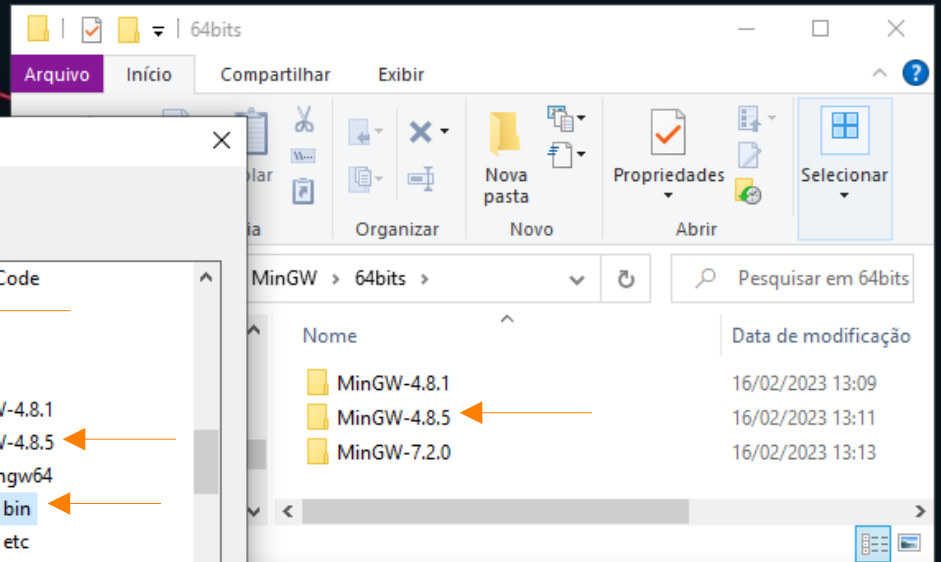
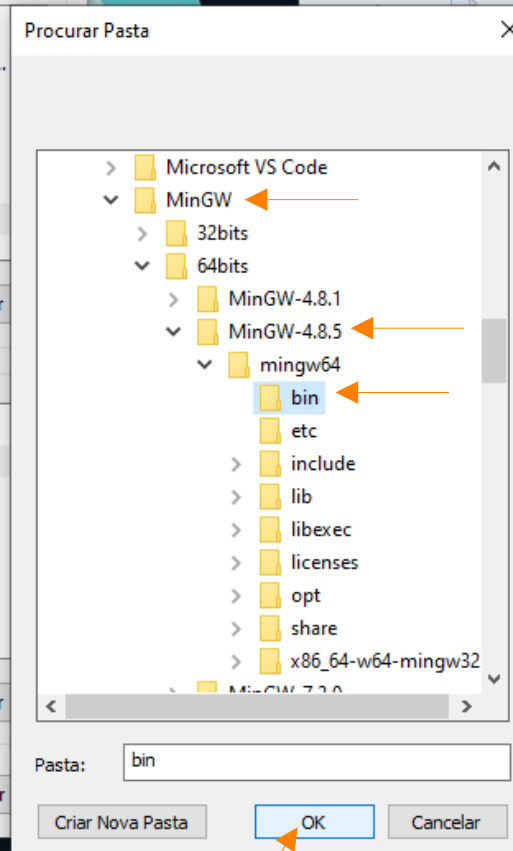
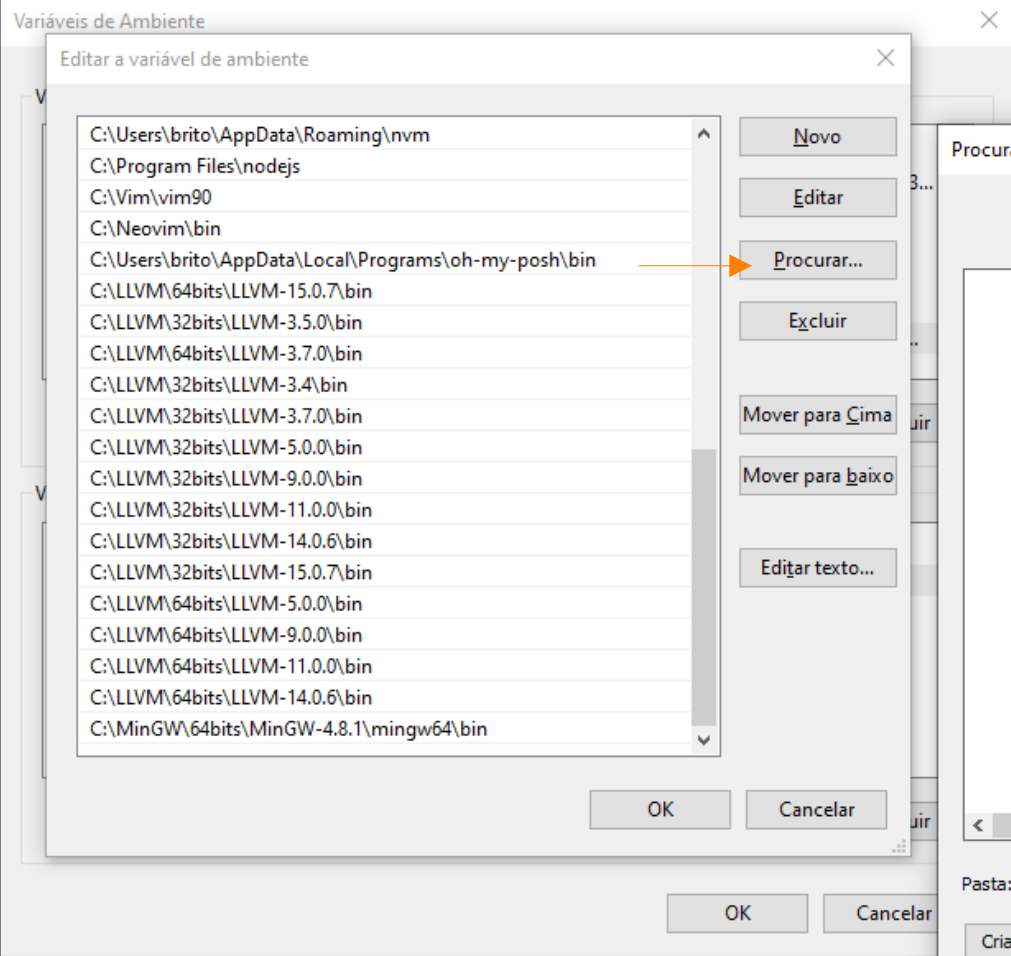
Veja que ela foi adicionada



## Vamos repetir o processo



Obs: primeiro click em new



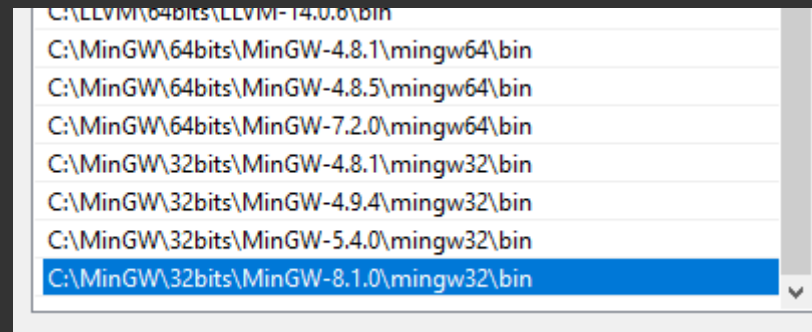
C:\LLVM\64bits\LLVM-14.0.0\bin

C:\MinGW\64bits\MinGW-4.8.1\mingw64\bin

C:\MinGW\64bits\MinGW-4.8.5\mingw64\bin

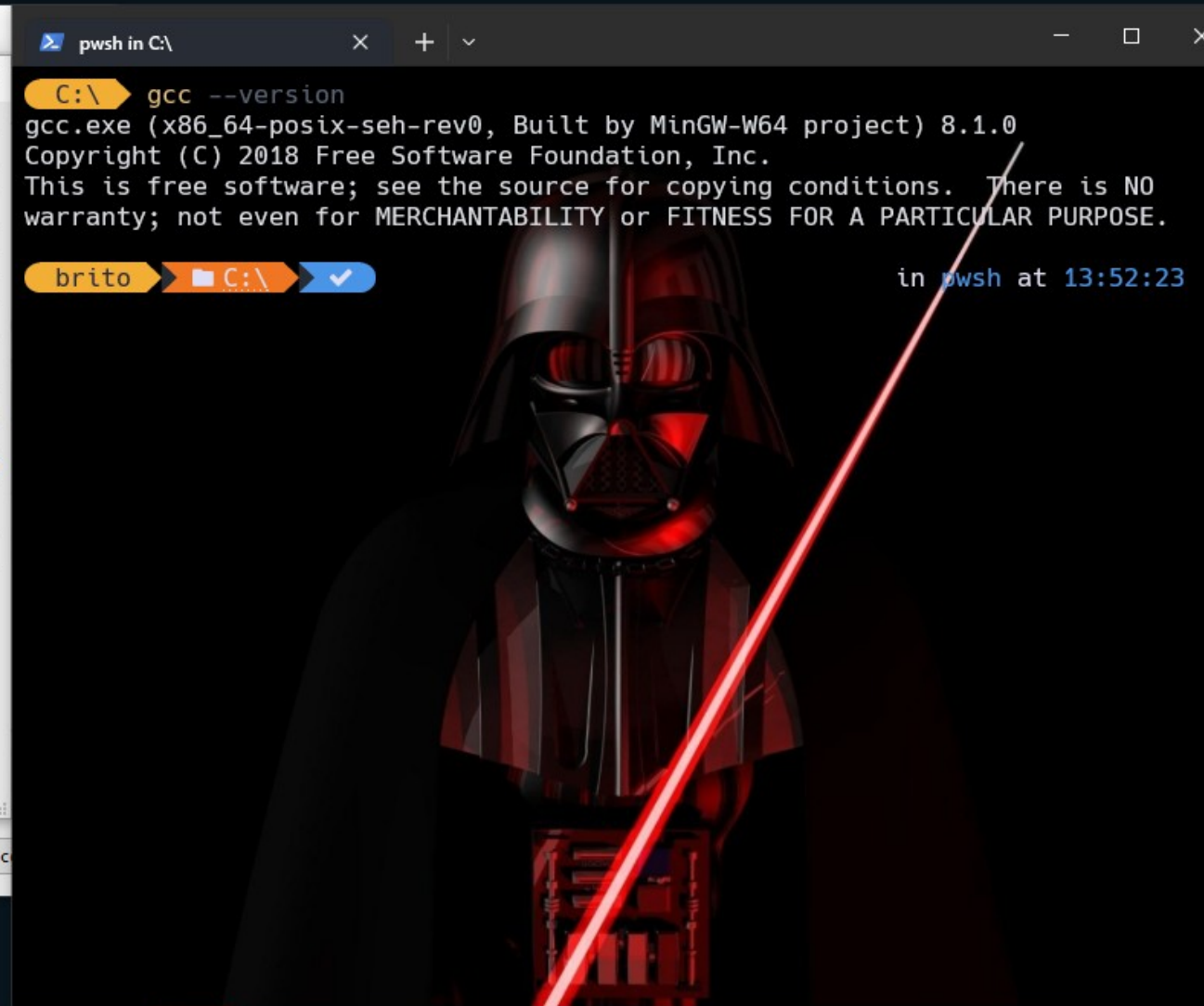
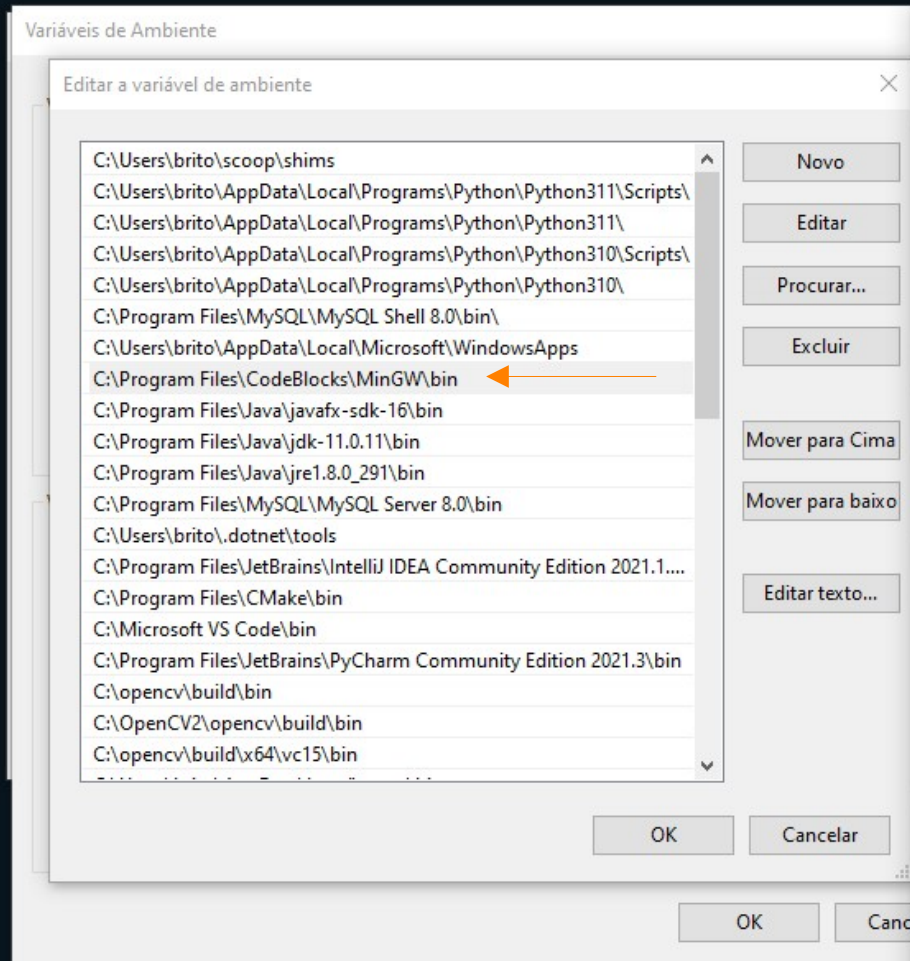


**Repetindo o processo  
Adicionei todas de  
32 e 64  
bits**

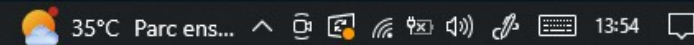


E agora como trocar uma versão  
O windows busca de cima pra baixo  
Portanto a primeira que vier  
É essa que ele vai usar  
É só ir no path e colocar a versão que queremos acima  
De todas as outras  
Como fazemos pro clang

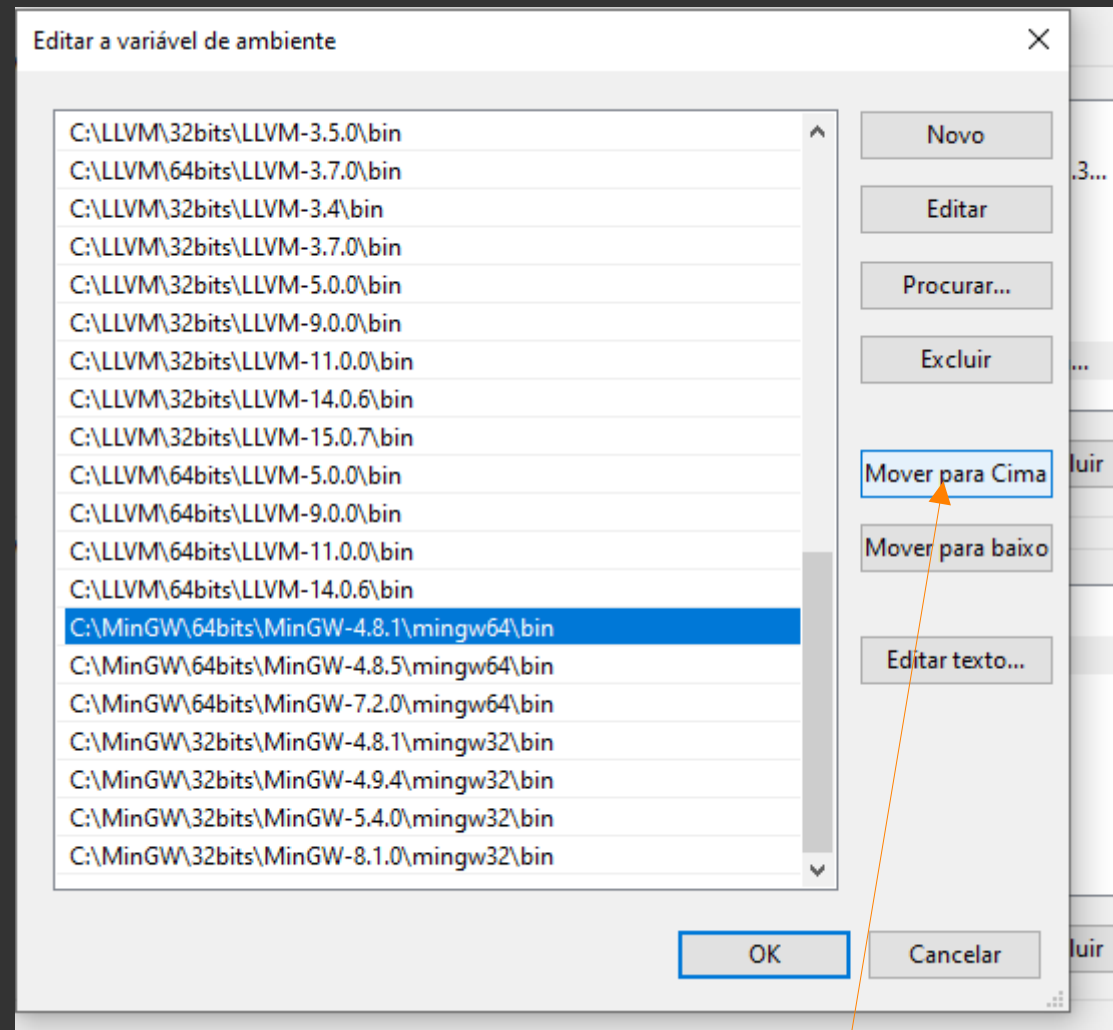
# Atualmente ele usa a versão do codeblocks



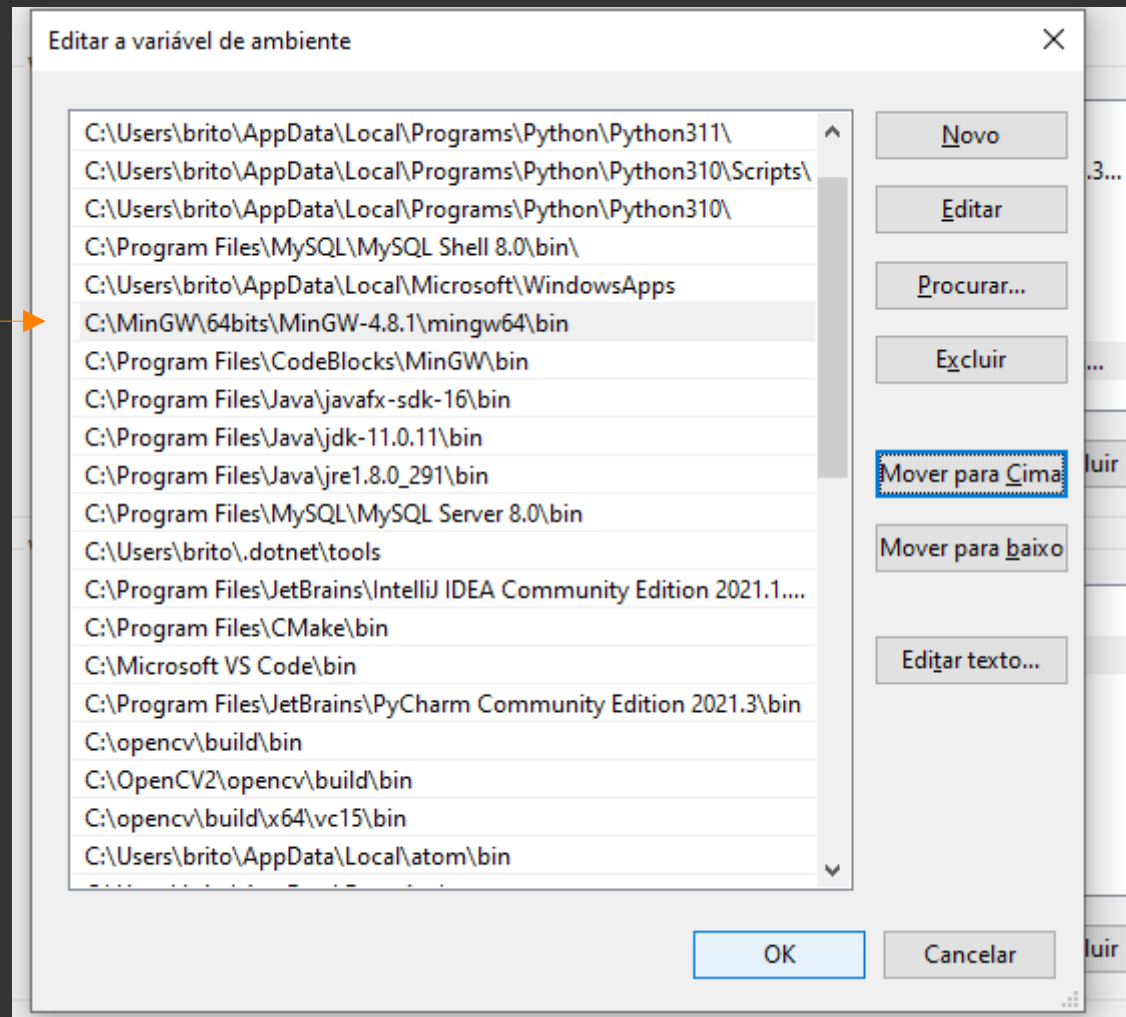
VII



Como ele usa a do codeblocks  
Escolhemos a versão e movemos  
Ela pra cima da versão do codeblocks



Pra mover usamos  
A caixa ai do lado



Colocamos acima do codeblocks

Community gcc --version

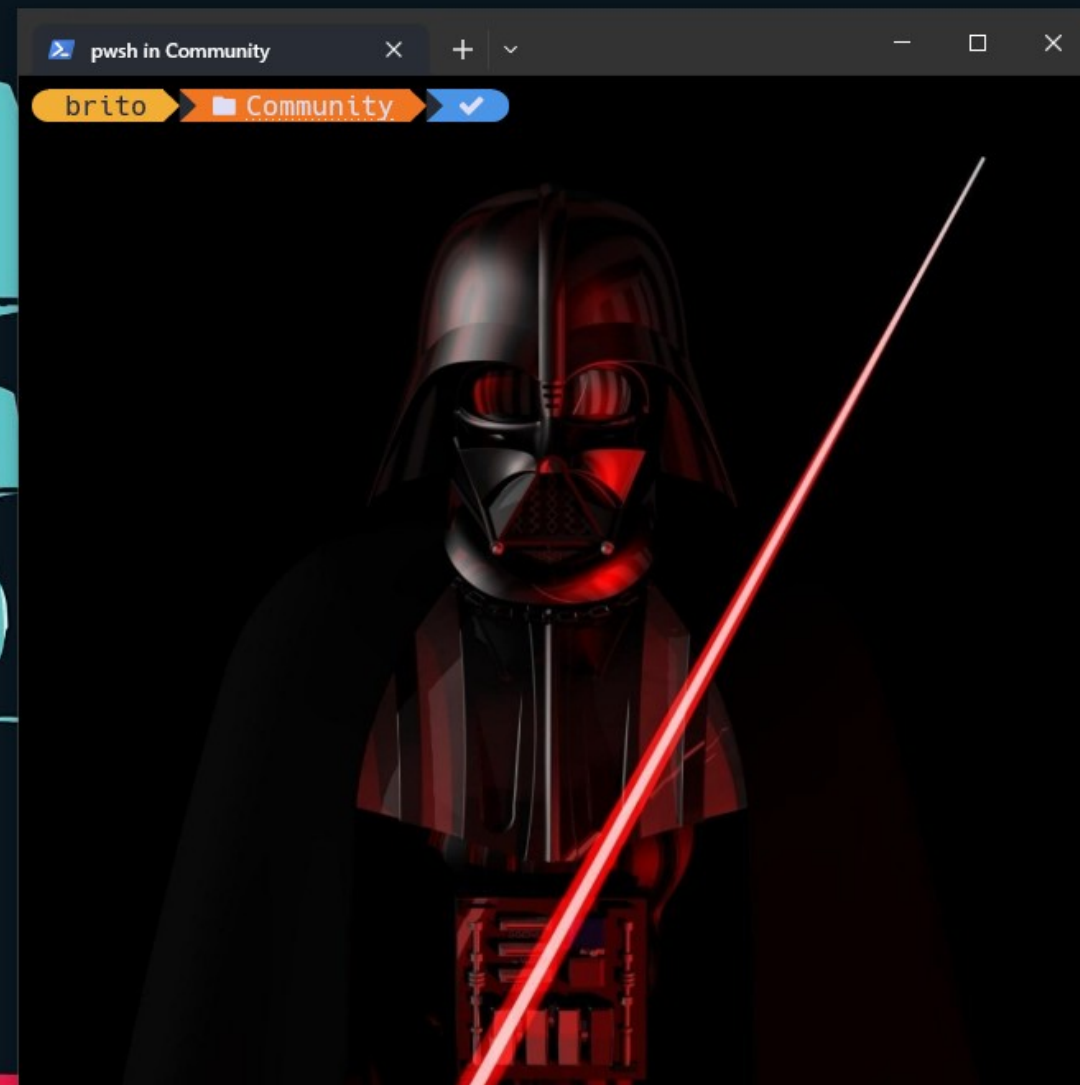
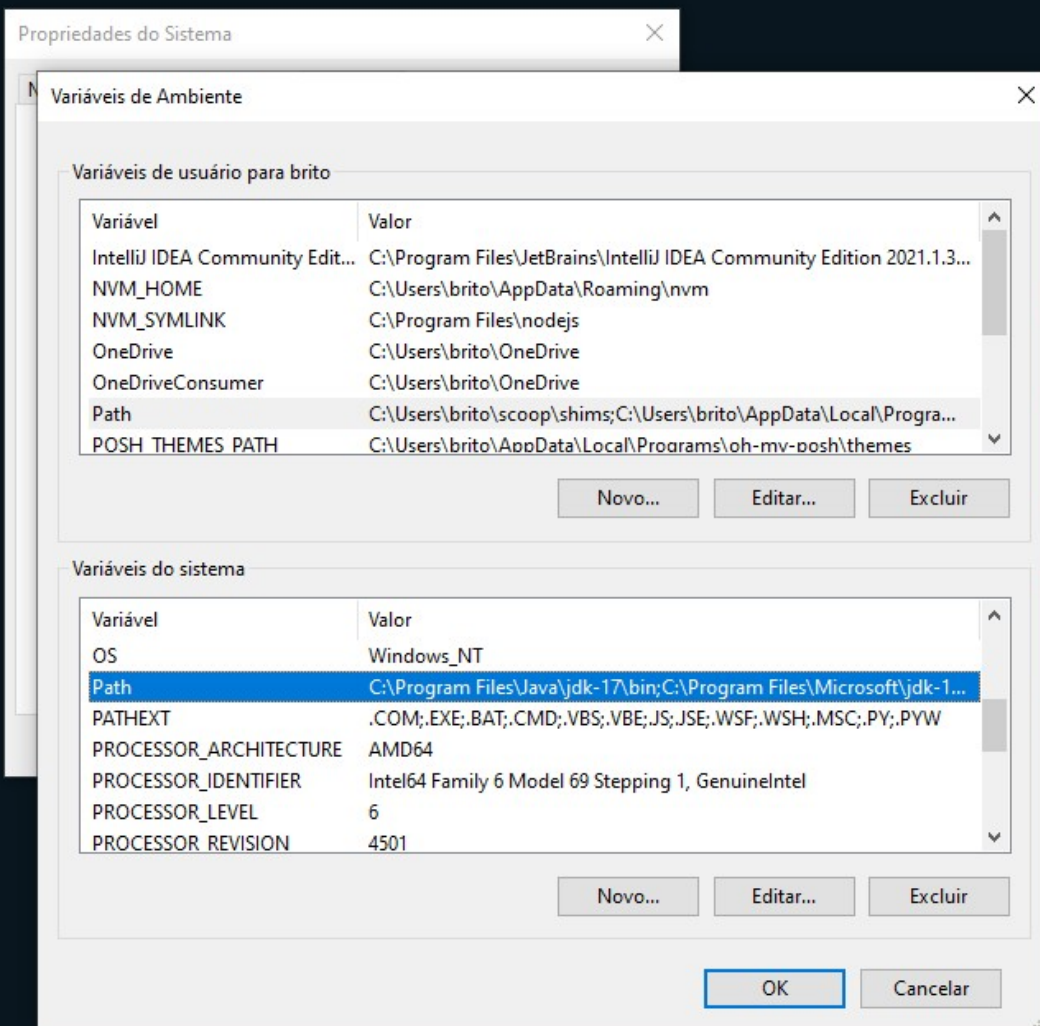
gcc.exe (x86\_64-posix-seh-rev0, Built by MinGW-W64 project) 8.1.0  
Copyright (C) 2018 Free Software Foundation, Inc.  
This is free software; see the source for copying conditions. There is NO  
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

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in pwsh at 14:04:16

Mesmo movendo ela continua com a ultima versão  
Vou trocar no systema pra ver se é la  
Pois a de usuario esta assim

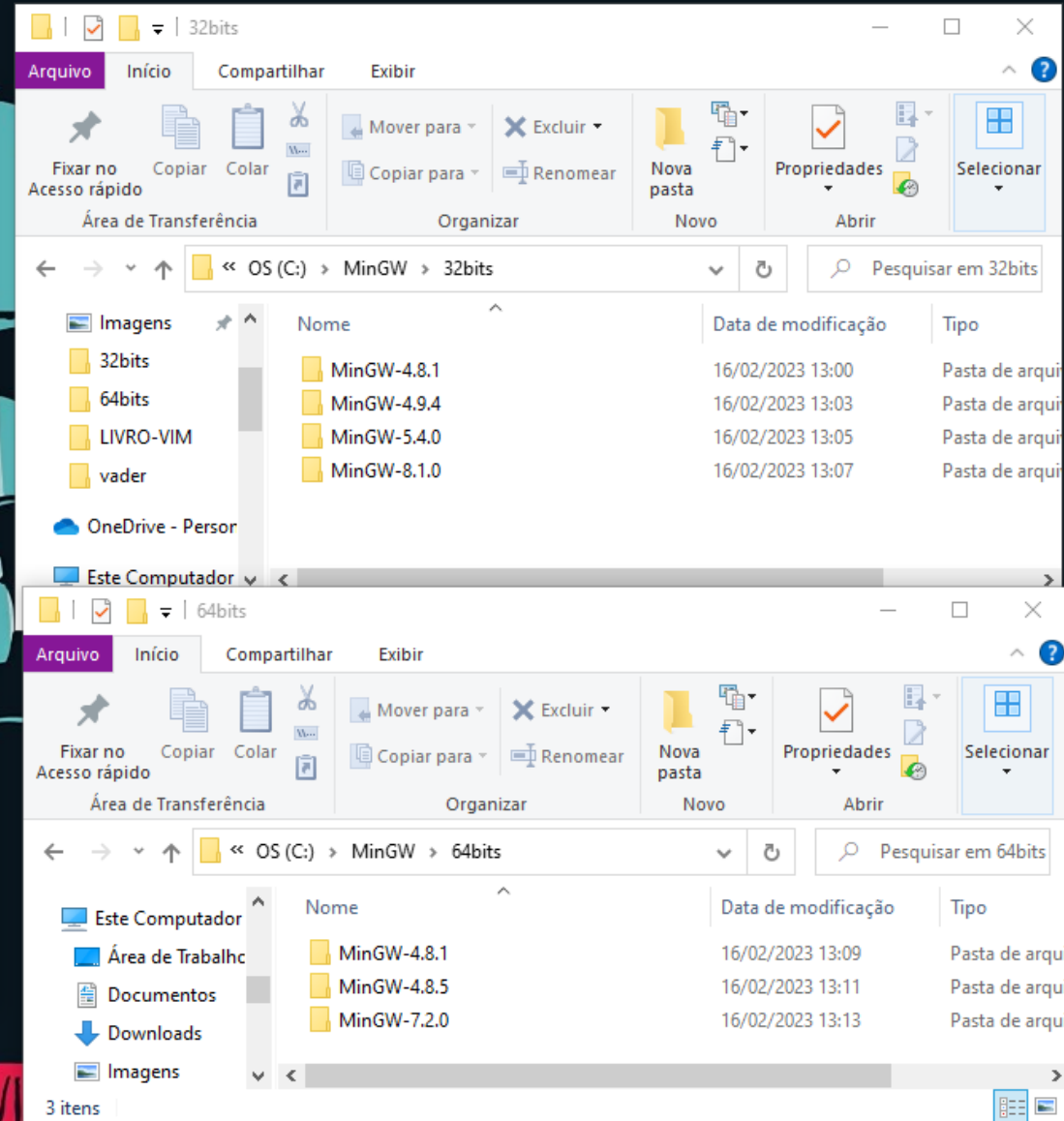
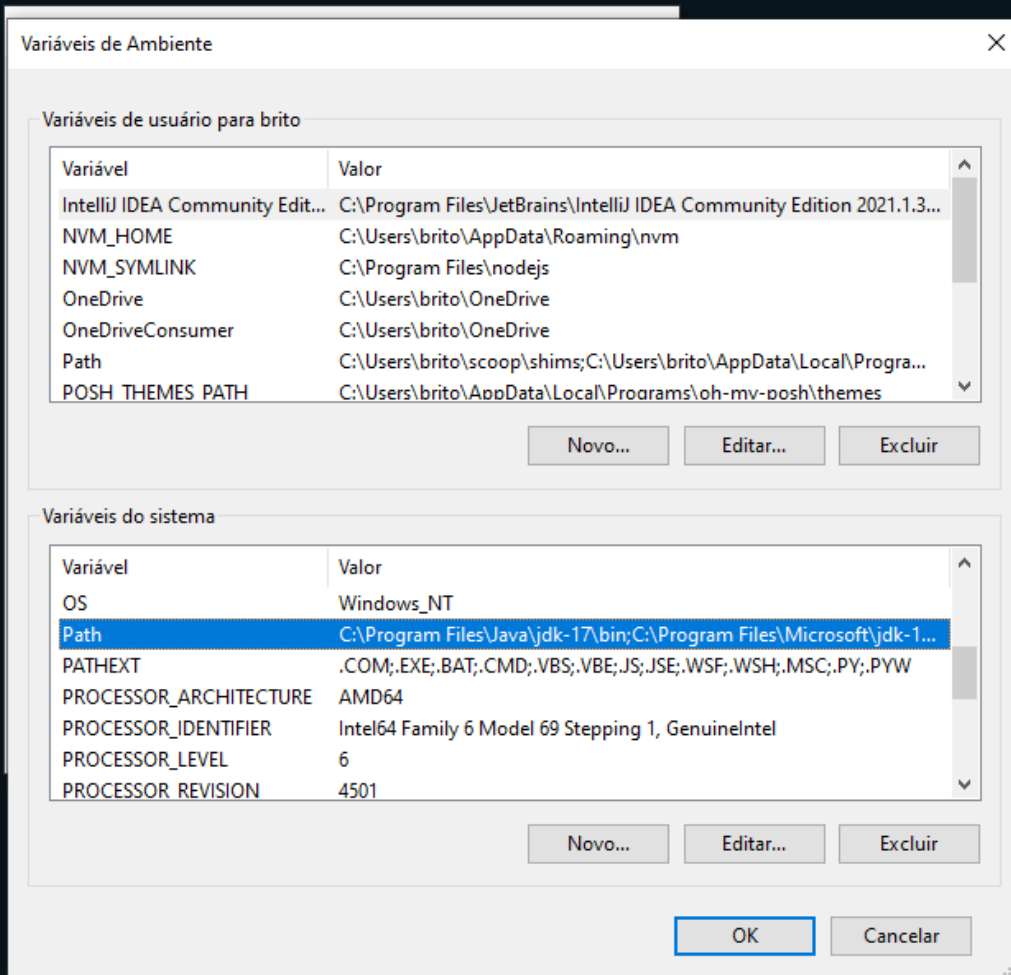


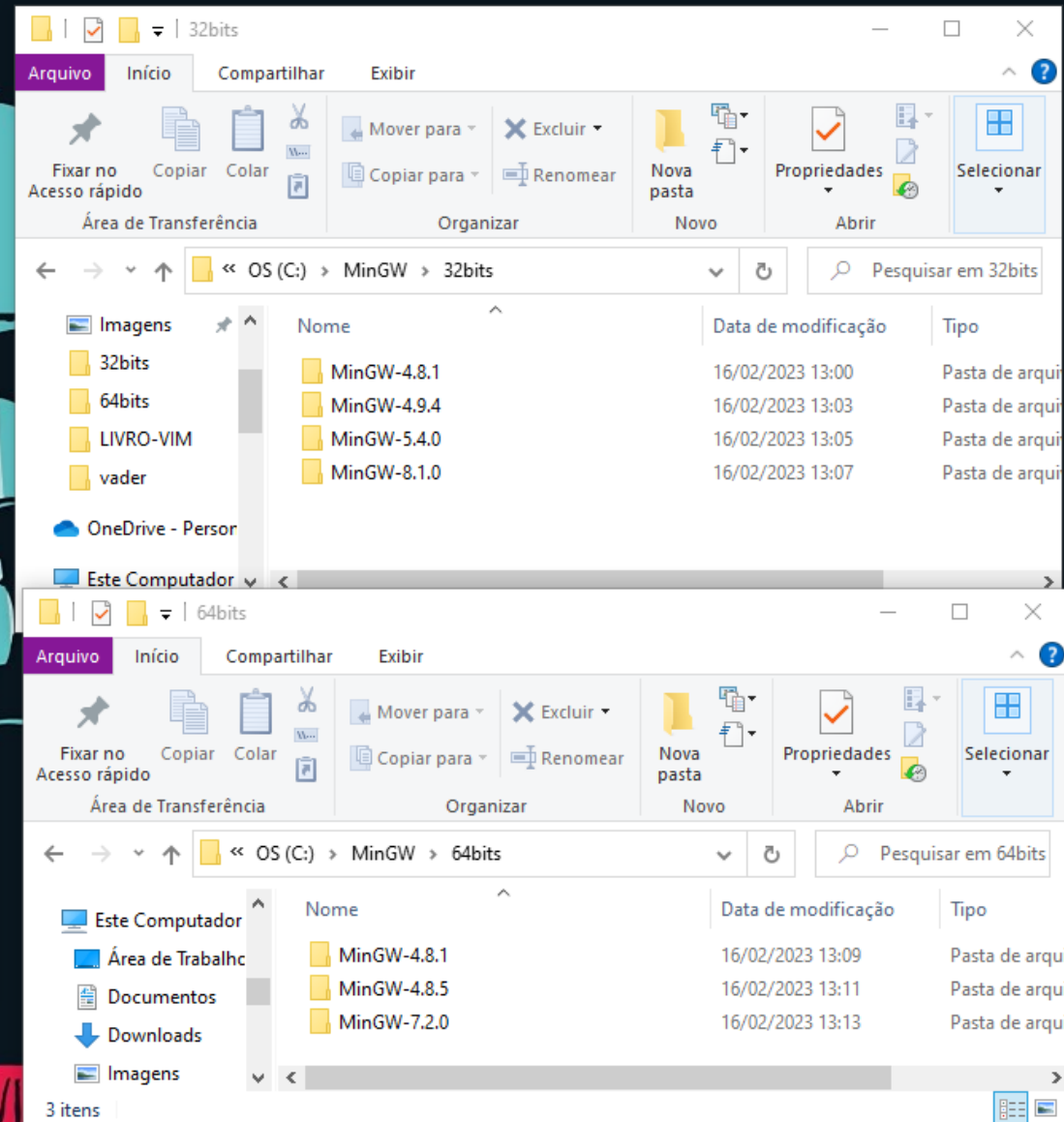
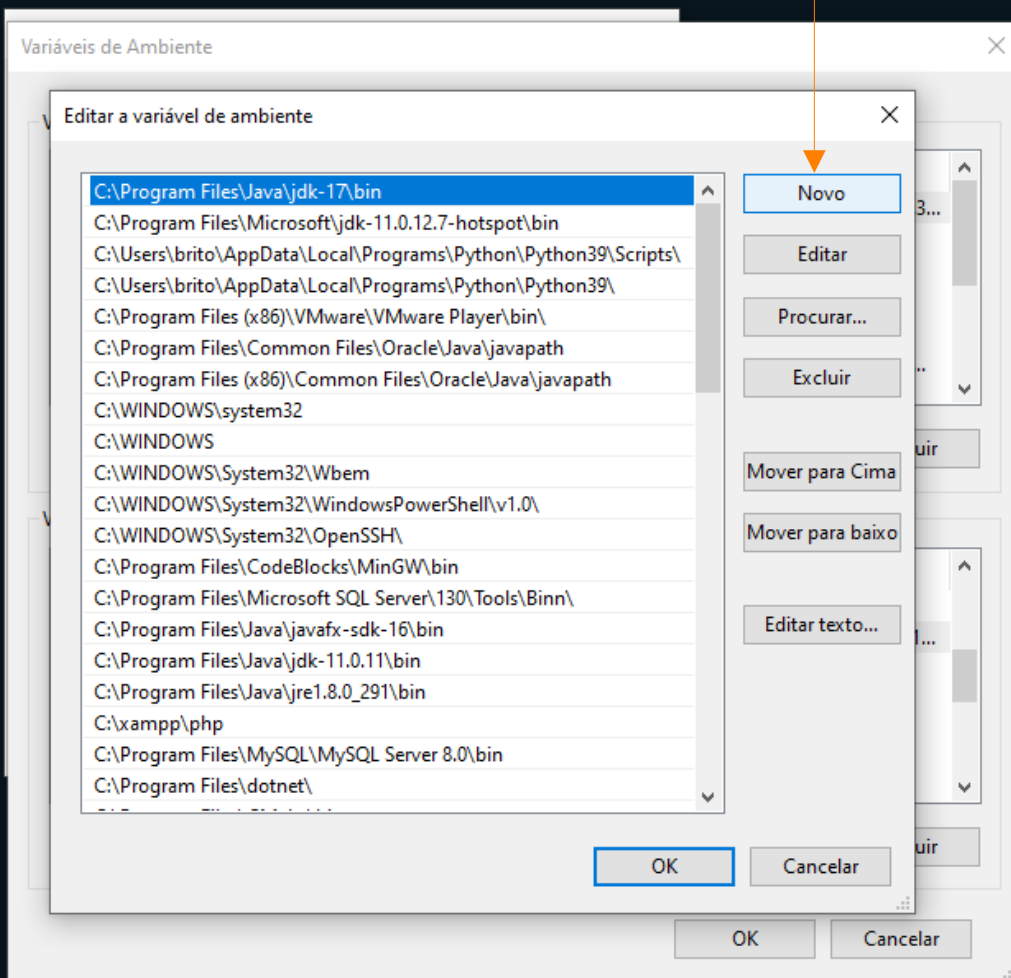


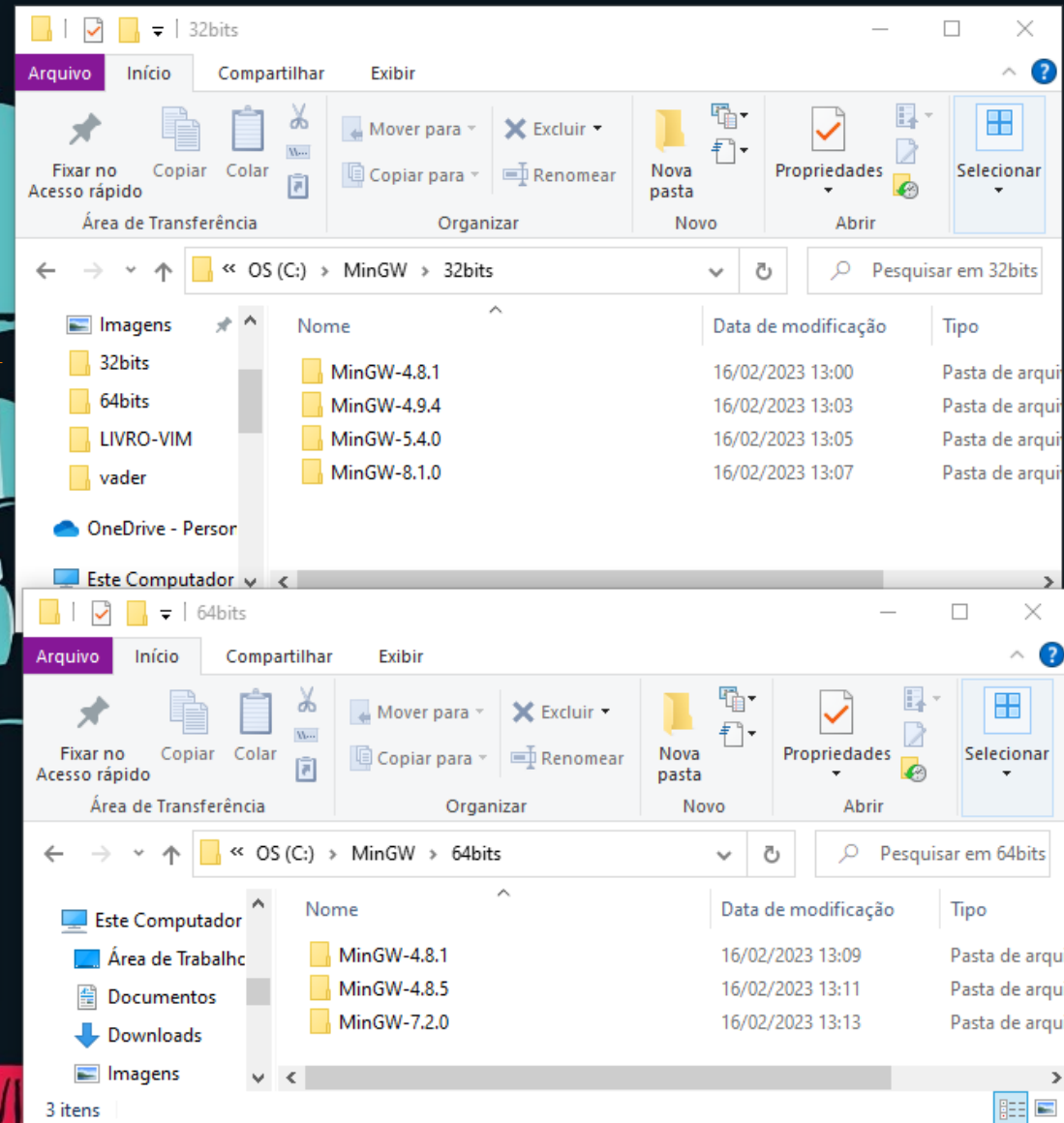
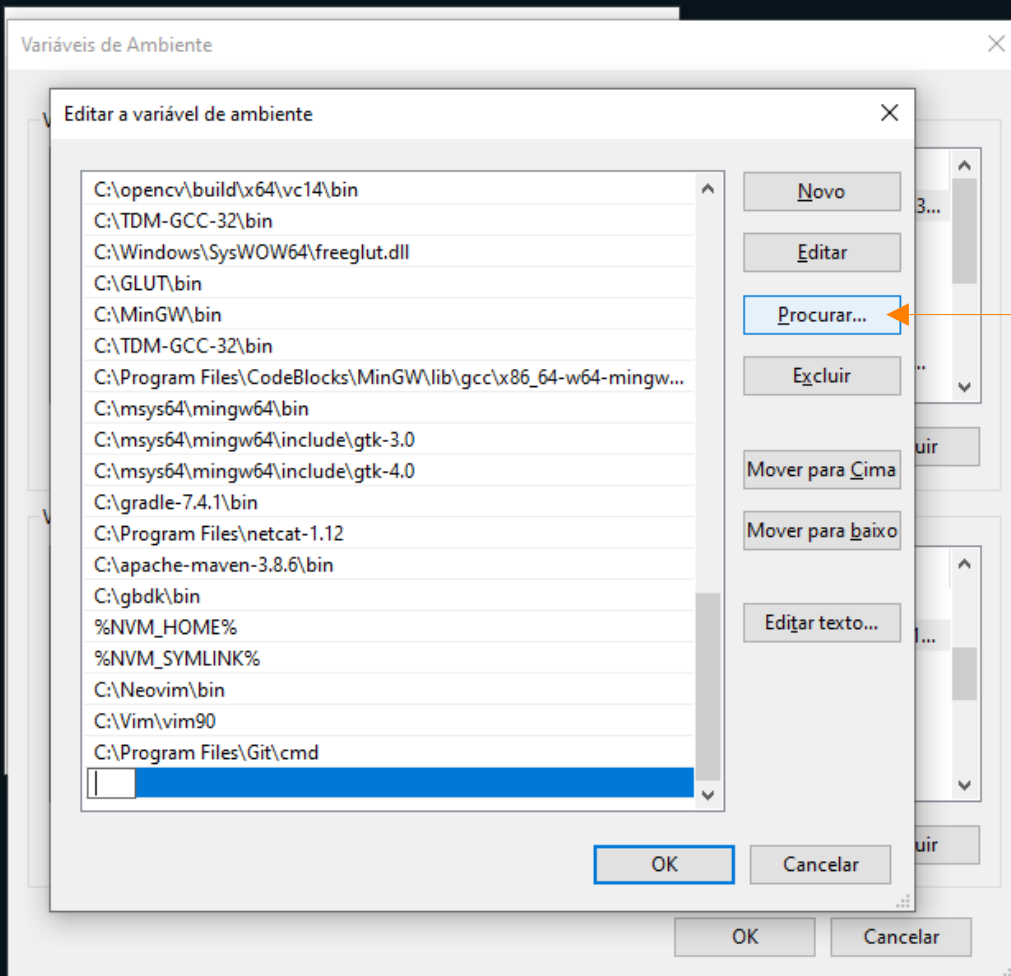
Elas não foram adicionadas as variaveis do systema  
Vou adicionalas  
Para testar



# Click duplo







Variáveis de Ambiente

Editar a variável de ambiente

C:\opencv\build\x64\vc15\bin  
C:\opencv\build\x64\vc14\bin  
C:\TDM-GCC-32\bin  
C:\Windows\SysWOW64\freelut.dll  
C:\GLUT\bin  
C:\MinGW\bin  
C:\TDM-GCC-32\bin  
C:\Program Files\CodeBlocks\MinGW\lib\gcc\x86\_64-w64-mingw...  
C:\msys64\mingw64\bin  
C:\msys64\mingw64\include\gtk-3.0  
C:\msys64\mingw64\include\gtk-4.0  
C:\gradle-7.4.1\bin  
C:\Program Files\netcat-1.12  
C:\apache-maven-3.8.6\bin  
C:\gdbk\bin  
%NVM\_HOME%  
%NVM\_SYMLINK%  
C:\Neovim\bin  
C:\Vim\vim90  
C:\Program Files\Git\cmd

OK Cancelar

Procurar Pasta

- > gradle-7.4.1
- > Intel
- > LLVM
- > Logs
- > Microsoft VS Code
- > MinGW
  - > 32bits
    - > MinGW-4.8.1
      - > mingw32
        - bin
        - etc
        - i686-w64-mingw32
        - include
        - lib
        - libexec
        - licenses
        - opt

Pasta: bin

Criar Nova Pasta OK Cancelar

32bits

Compartilhar Exibir

Mover para Excluir Copiar para Renomear Nova pasta Propriedades Selecionar

OS (C:) > MinGW > 32bits

Pesquisar em 32bits

Nome	Data de modificação	Tipo
MinGW-4.8.1	16/02/2023 13:00	Pasta de arqu
MinGW-4.9.4	16/02/2023 13:03	Pasta de arqu
MinGW-5.4.0	16/02/2023 13:05	Pasta de arqu
MinGW-8.1.0	16/02/2023 13:07	Pasta de arqu

64bits

Compartilhar Exibir

Mover para Excluir Copiar para Renomear Nova pasta Propriedades Selecionar

OS (C:) > MinGW > 64bits

Pesquisar em 64bits

Nome	Data de modificação	Tipo
MinGW-4.8.1	16/02/2023 13:09	Pasta de arqu
MinGW-4.8.5	16/02/2023 13:11	Pasta de arqu
MinGW-7.2.0	16/02/2023 13:13	Pasta de arqu

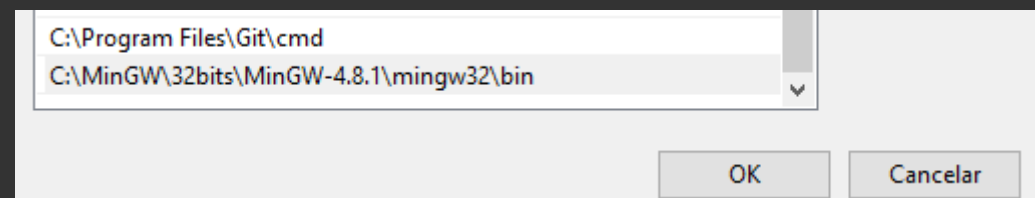
Este Computador

- Área de Trabalho
- Documentos
- Downloads
- Imagens

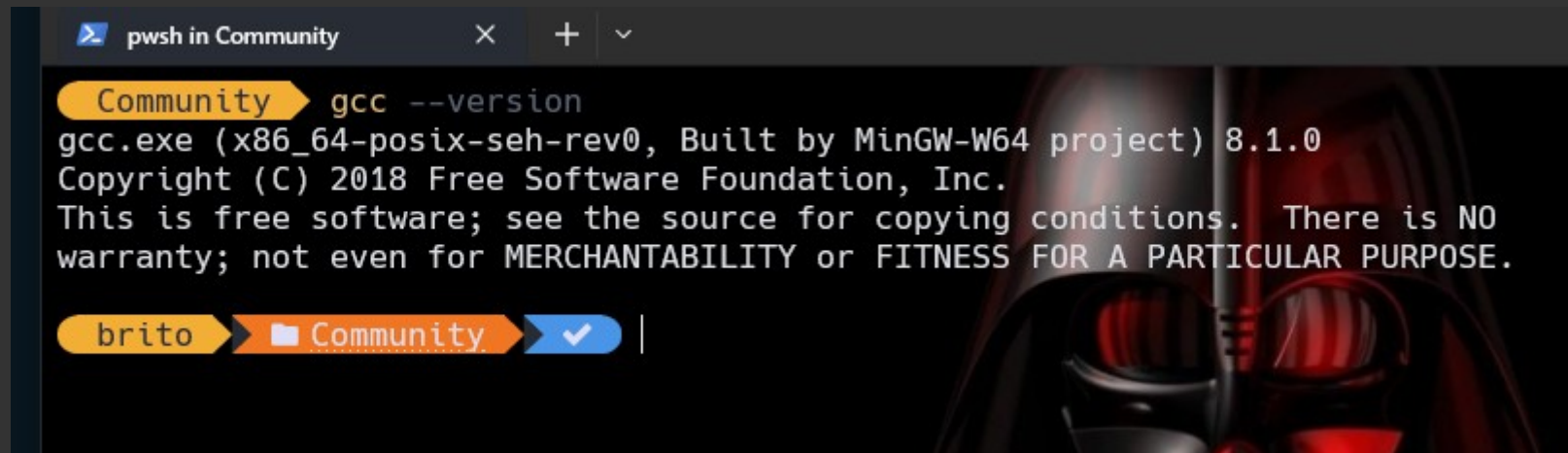
3 itens



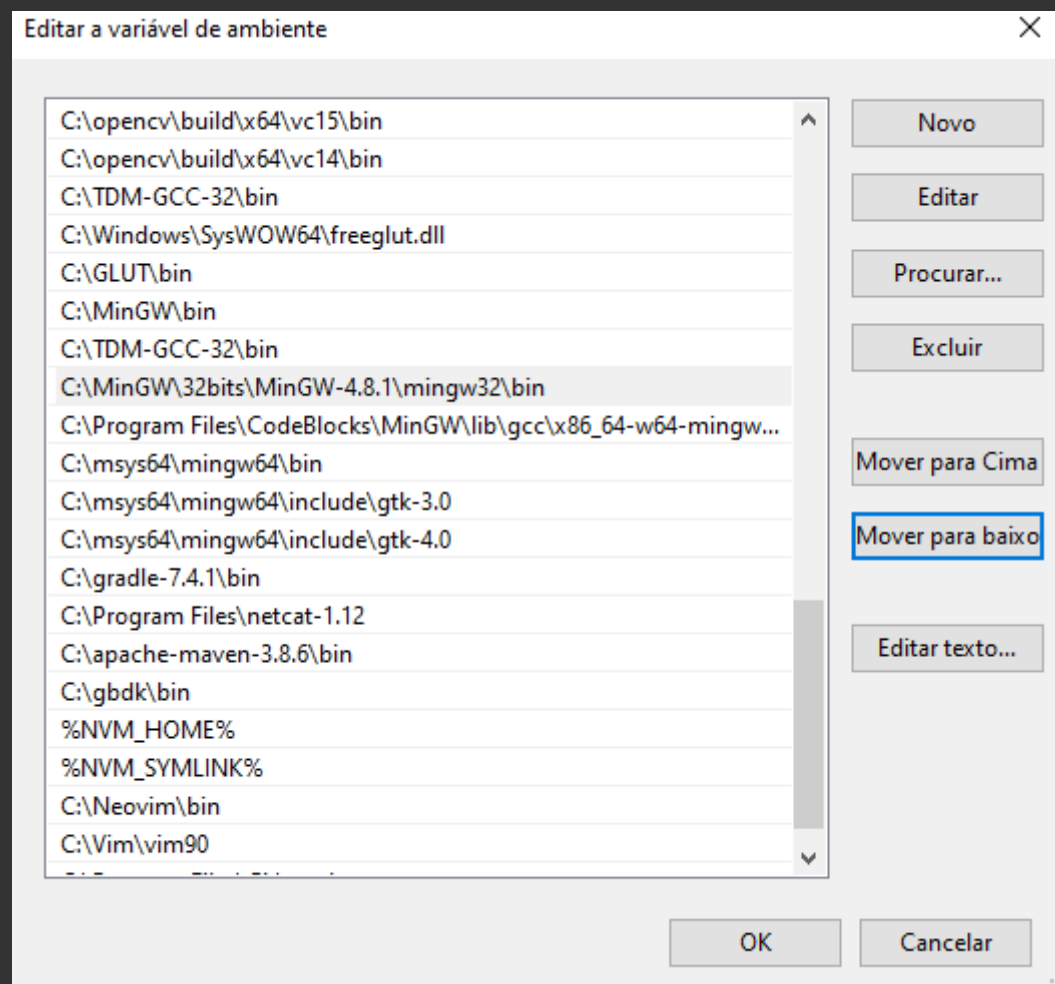
Adicionado ao path do systema  
Vamos testar pra ve se vai dar certo  
Se der repetimos para os outros



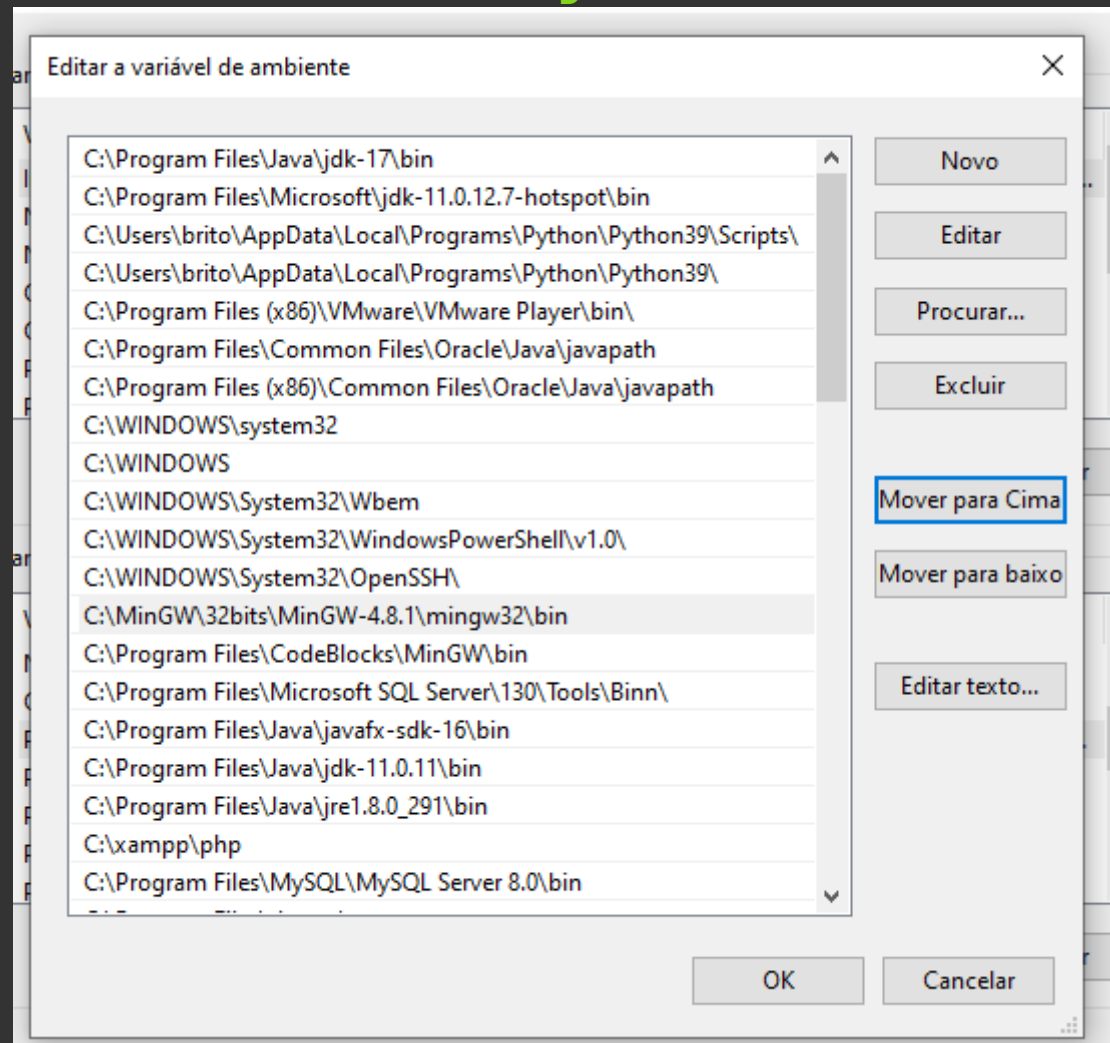
Nas variaveis do systema  
Vou colocar a versão que instalamos acima da  
Do codeblocks



```
pwsh in Community X + v  
Community gcc --version  
gcc.exe (x86_64-posix-seh-rev0, Built by MinGW-W64 project) 8.1.0  
Copyright (C) 2018 Free Software Foundation, Inc.  
This is free software; see the source for copying conditions. There is NO  
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  
brito > Community > |
```



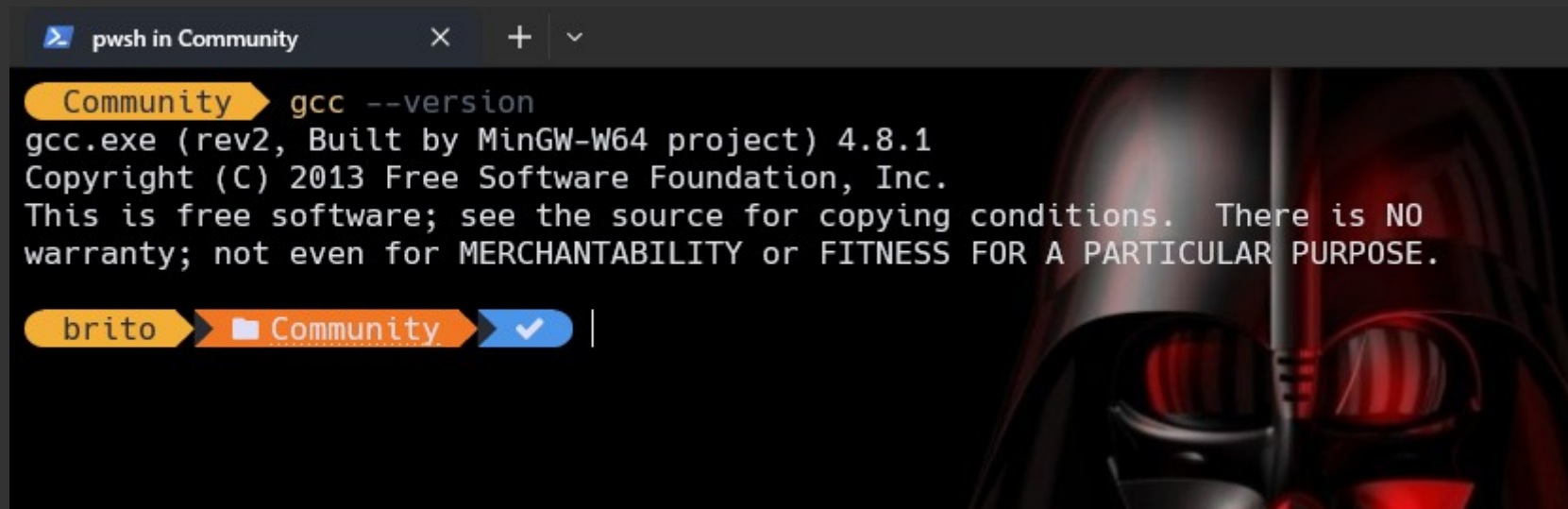
Deu erro  
Coloquei mais acima  
Pois tem outra versão  
Do mingw



Salve reinicie o terminal e vamos testar



Agora podemos trocar a versão do nosso gcc  
Vamos adicionar as outras versões as variáveis de sistema



```
pwsh in Community X + v  
Community gcc --version  
gcc.exe (rev2, Built by MinGW-W64 project) 4.8.1  
Copyright (C) 2013 Free Software Foundation, Inc.  
This is free software; see the source for copying conditions. There is NO  
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  
brito Community ✓ |
```

Adicionei uma variavel  
Porem apareceu um erro  
Dizendo que as  
Variaveis e ou o  
Caminho são muito grandes para  
Isso  
Obs: resolver



