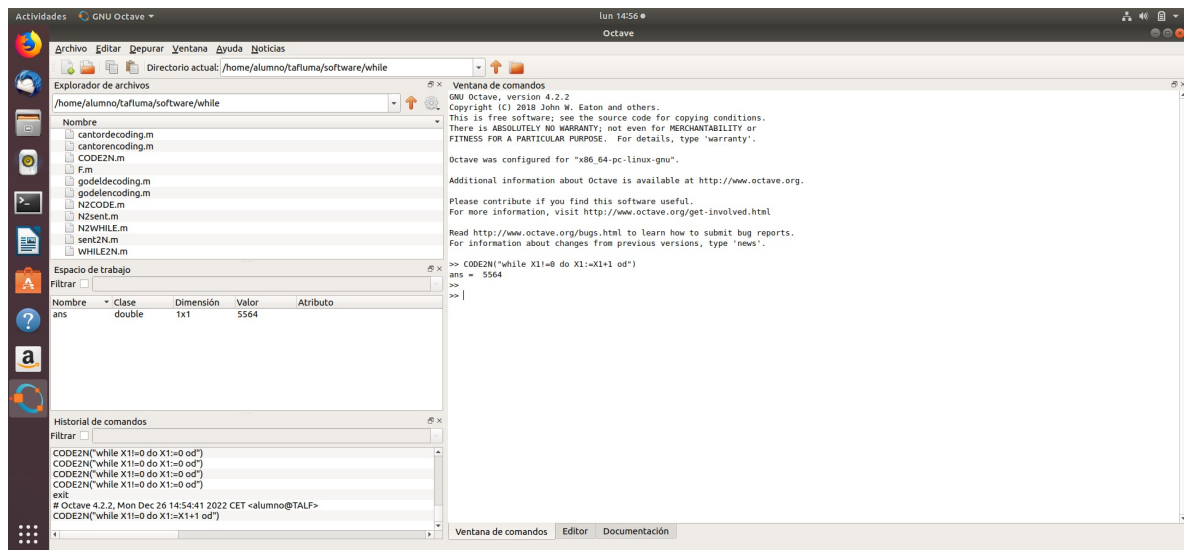


Practica 4. Temas 10, 11 y 12

María Jesús García Bravo

1 Ejercicios

10. Create the simplest WHILE program that computes the diverge function (with zero arguments) and compute the codification of its code.



```
GNU Octave, version 4.2.2
Copyright (C) 2018 John W. Eaton and others.
This is free software; see the source code for copying conditions.
There is ABSOLUTELY NO WARRANTY; not even for MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE. For details, type 'warranty'.

Octave was configured for "x86_64-pc-linux-gnu".

Additional information about Octave is available at http://www.octave.org.

Please contribute if you find this software useful.
For more information, visit http://www.octave.org/get-involved.html

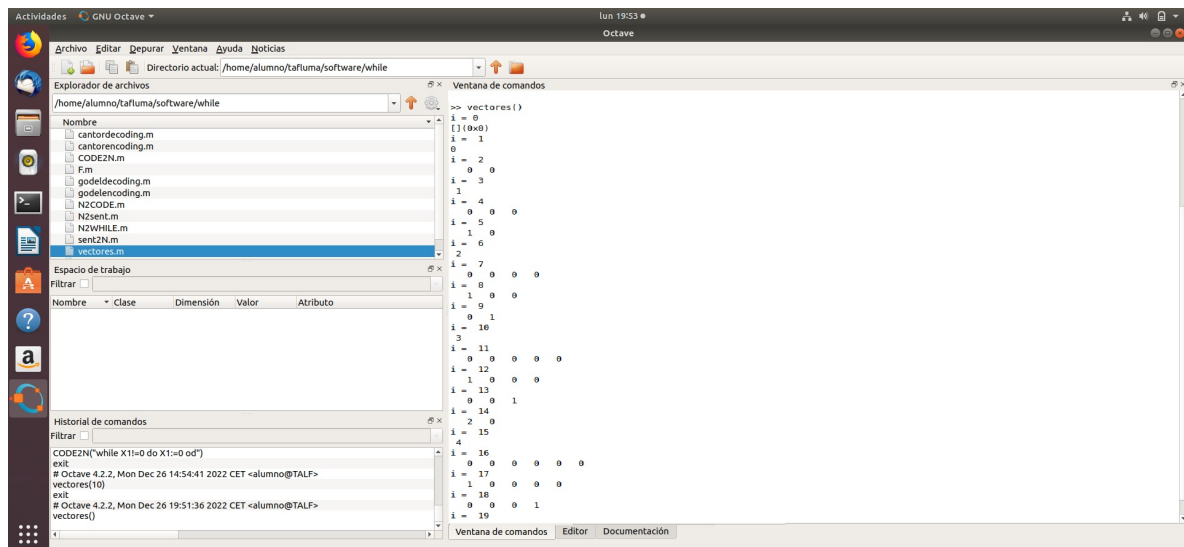
Read http://www.octave.org/bugs.html to learn how to submit bug reports.
For information about changes from previous versions, type 'news'.
```

```
>> CODE2N("while X1=0 do X1=>X1+1 od")
ans = 5564
>>
```

Nombre	Clase	Dimensión	Valor	Atributo
ans	double	1x1	5564	

```
Historial de comandos
Filtrar
CODE2N("while X1=0 do X1=>X1+1 od")
CODE2N("while X1=0 do X1=>X1+1 od")
CODE2N("while X1=0 do X1=>X1+1 od")
CODE2N("while X1=0 do X1=>X1+1 od")
exit
# Octave 4.2.2, Mon Dec 26 14:54:41 2022 CET <alumno@TALF>
CODE2N("while X1=0 do X1=>X1+1 od")
```

11. Create an Octave script that enumerates all the vectors.



```
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For information about changes from previous versions, type 'news'.
```

```
>> vectores()
i = 0
[] (0x0)
i = 1
0
i = 2
0 0
i = 3
1
i = 4
0 0 0
i = 5
1 0
i = 6
2
i = 7
0 0 0 0
i = 8
1 0 0
i = 9
0 1
i = 10
3
i = 11
0 0 0 0 0
i = 12
1 0 0 0
i = 13
0 0 1
i = 14
2 0
i = 15
4
i = 16
0 0 0 0 0 0
i = 17
1 0 0 0 0
i = 18
0 0 0 1
i = 19
2 0
```

Nombre	Clase	Dimensión	Valor	Atributo
ans	double	1x1	10	

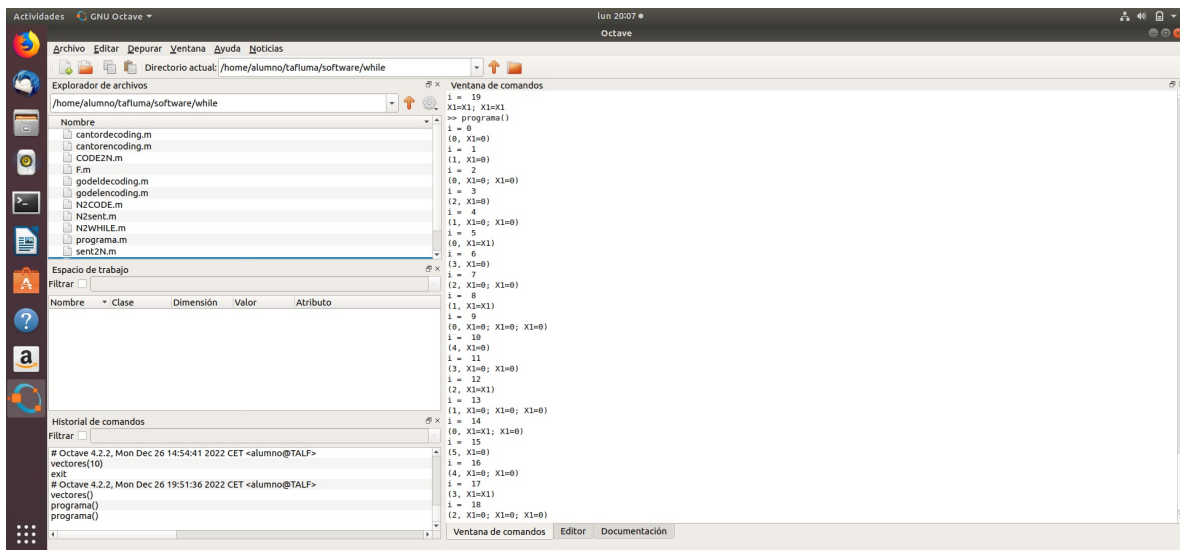
```
Historial de comandos
Filtrar
CODE2N("while X1=0 do X1=>X1+1 od")
exit
# Octave 4.2.2, Mon Dec 26 14:54:41 2022 CET <alumno@TALF>
vectores(10)
exit
# Octave 4.2.2, Mon Dec 26 19:51:36 2022 CET <alumno@TALF>
vectores()
```

```

function vectores()
i = 0
while true
    disp (godeldecoding(i))
    i = i+1
end
end

```

12. Create an Octave script that enumerates all the WHILE programs.



```

function programa()
i=0
while true
    disp(N2WHILE(i))
    i = i + 1
end
end

```