Práctica 4

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1. Programa simple en WHILE que computa una función que diverge:

```
diverger = (0, s)
s:
    X1 := X1 + 1;
    while X1 != 0 do
        X1 := X1;
    od
```

```
alumno@TALF:~$ cd Descargas
alumno@TALF:~/Descargas$ cd talfuma
alumno@TALF:~/Descargas/talfuma} cd software
alumno@TALF:~/Descargas/talfuma/software$ cd Whilelanguage
alumno@TALF:~/Descargas/talfuma/software/Whilelanguage$ cd encoding
alumno@TALF:~/Descargas/talfuma/software/Whilelanguage$ cotave --no-guiGNU Octave, version 4.2.2
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Read http://www.octave.org/bugs.html to learn how to submit bug reports.
For information about changes from previous versions, type 'news'.

octave:1> WHILE2N(0, "X1:=X1+1;while X1!=0 do X1:=X1 od")
ans = 9678230627
```

2. Scripts de Octave que enumeran todos los vectores:

```
function printAllVectors
  i = 0;
  while true
    [' (' num2str(godeldecoding(i) ') ']
    i = i + 1;
  endwhile
end
```

```
alumno@TALF: ~/Descargas/talfuma/software/Whilelanguage/encoding
Archivo Editar Ver Buscar Terminal Ayuda
alumno@TALF:~$ cd Descarga
bash: cd: Descarga: No existe el archivo o el directorio
alumno@TALF:~$ cd Descargas
alumno@TALF:~/Descargas$ cd talfuma
alumno@TALF:~/Descargas/talfuma$ cd software
alumno@TALF:~/Descargas/talfuma/software$ cd Whilelanguage
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For information about changes from previous versions, type 'news'.
octave:1> printAllVectors
```

Al no introducir argumentos, debería devolverme todos los programas pero no devuelve nada.

3. Scripts de Octave que enumeran todos los programas WHILE:

```
function program = printAllPrograms(N)
  i=0;
  while (i<N-1)
     N2WHILE(i)
     i = i + 1;
  endwhile
end</pre>
```

```
alumno@TALF: ~/Descargas/talfuma/software/Whilelanguage/encoding
Archivo Editar Ver Buscar Terminal Ayuda
alumno@TALF:~$ cd Descarga
bash: cd: Descarga: No existe el archivo o el directorio
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Read http://www.octave.org/bugs.html to learn how to submit bug reports.
For information about changes from previous versions, type 'news'.
octave:1> printAllPrograms()
```

Al no introducir argumentos, debería devolverme todos los programas pero no devuelve nada.

Posible solución con argumentos: