

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
```

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
alumno@TALF:~/Descargas/talfuma/software/Whilelanguage$ cd encoding
alumno@TALF:~/Descargas/talfuma/software/Whilelanguage/encoding$ octave --no-gui
GNU Octave, version 4.2.2
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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
```

```
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octave:1> printAllPrograms()
```

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

Possible solución con argumentos:

```
alumno@TALF: ~/Descargas/talfuma/software/Whilelanguage/encoding
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octave:1> printAllPrograms(12)
ans = (0, X1:=0)
ans = (1, X1:=0)
ans = (0, X1:=0; X1:=0)
ans = (2, X1:=0)
ans = (1, X1:=0; X1:=0)
ans = (0, X1:=X1)
ans = (3, X1:=0)
ans = (2, X1:=0; X1:=0)
ans = (1, X1:=X1)
ans = (0, X1:=0; X1:=0; X1:=0)
ans = (4, X1:=0)
octave:2>
```