Práctica 4

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

```
diverger = (0, s)

s:

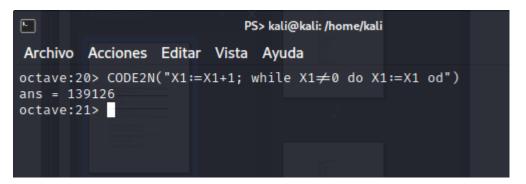
X_1 := X_1 + 1;

while X_1 \neq 0 do

X_1 := X_1;

od
```

El bucle entra en divergencia y la codificación es menor.



2 Create an Octave script that enumerates all the vectors.

```
 \begin{array}{l} {\rm fuction\ function\ printNvectors}(N) \\ {\rm \ for\ i=0:N-1} \\ {\rm \ disp}([\ '\ (\ '\ num2str(godeldecoding(i))\ '\ )\ '\ ]) \\ {\rm \ i=i+1;} \\ {\rm \ end} \\ {\rm \ end} \\ \end{array}
```

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

```
 \begin{cases} \text{fuction practica4.2()} \\ \text{i=0;} \\ \text{while} (i \geq 0) \\ \text{disp} (\text{N2WHILE}(i)) \\ \text{i=i+1;} \\ \text{end} \\ \end{cases}
```

```
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octave:30> printNwhilePrograms(4)

(0, X1=0)

(1, X1=0)

(0, X1=0; X1=0)

(2, X1=0)

octave:31>
```