Practica 4

Carmen Alonso Jimenez

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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

Figura 1:

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

```
function printNvectors(N)
for i=0:N-1
disp([( num2str(godeldecoding(i)))])
end
end
```

```
octave:4> printNvectors(6)
()
(0)
(0 0)
(1)
(0 0 0)
(1 0)
```

Figura 2:

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

```
function printNwhilePrograms(N)
```

```
for i=1:inf
    N2WHILE(i)
end
end
```

```
octave:11> printNwhilePrograms(1004545)
error: invalid empty index expression
error: called from
N2WHILE at line 20 column 24
printNwhilePrograms at line 3 column 1
```

Figura 3: