

LIKE A RECORD BABY

— (the sundance kid) i'll go.

— (butch cassidy) this is no time for bravery. i'll let you.

ene hasiberria, let's talk about infinity and uncertainty.

uncertainty is a good and necessary consequence of free will; portliness is a good and necessary consequence of sexual abstinence.

in order to take any kind of decision, your cells will need to use conditional instructions. for example, this code pushes a pseudorandom number between 0 and $2^{31} - 1$ and, if that number is smaller than 2^{30} , steps 500 times:

```
random 1073741824 if-smaller
    500 repeat step
guard
```

instruction *infinity* pushes an integer that will be treated as an infinite value. for example, this code makes a cell spin until until it ends up dying:

```
infinity repeat turn
```

knowing that a cell can push its age in cycles on the stack with instruction *age*, write a block of code that, if a cell is more than 500 cycles old, walks to infinity. you will see your cells wait 5 seconds before running madly toward the end of their world.

each instruction or constant in a program is compiled into an integer; thus, genes are simply arrays of integers that cells execute in sequence, one per cycle. (V:2)

standard simulation frequency: 100 Hz (VII:11.3)