Start with a number n. Algorithm
A los of not 1:
- If n is even divide it by 2. Trease
- If n is even, divide it by 2. Frecision - If it is odd, multiply by 3 and add 1. Instructions.
)
Example: n=4316\$168421
$7 \rightarrow 22 \rightarrow (1) \rightarrow 34 \rightarrow (7 \rightarrow 52 \rightarrow 24 \rightarrow 13 \rightarrow 46 \rightarrow 20)$
9-28-14- Collatz Conjecture
$-2 \rightarrow -1$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$
5 basiz components of algorithms:
-Arthmetic
- Conditionals (if)
- Repetition
- Input — effect of the world a the program
- Input — effect of the world a the program - Output — effect on the world
Different types of errors
- Syntax error kind of like a spelling or gramme
error Not a valid program,
- Runtime error - Somethy goes wany while the program 13 runny. "Crashes".
program 13 munhj. "Crashes".
- Semantic error - Program doesn't do what you want.