```
% NAME: abraham reines
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% DATE: Feb 10, 2022
% PROGRAM: maxcollatz.m
% PURPOSE: Inputs some first number x and outputs the length of the
% sequence.
% CREDIT: Adapted from an example written by Dr. Lucus
% VARIABLES:
% a = zeros from 1 to 1000
  M = length of longest sequence
%
  N = longest hailstone sequence
%
% JMU PLEDGE
clear
a = zeros(1,1000);
for i = 1:1000
  a(i) = collatz(i);
end
[M,N] = max(a)
왕 {
M =
 179
N =
 871
응 }
M =
 179
N =
 871
```

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