```
% NAME: abraham reines
% JMU-EID: reinesaj
% DATE: Feb 2, 2022
% PROGRAM: pythag.m
\mbox{\ensuremath{\upsigma}{PURPOSE}}\colon Find the special pythagorean triplet Dr. Lucas needs.
% CREDIT: Adapted from an example written by Dr. Lucus
% VARIABLES:
a = less than b, 1:1000
   b = less than c, a + 1:1000
   c = equal to a^2 + b^2
% JMU PLEDGE
for a=1:1000 % Somewhere in there between 1 and 1000
   for b=a+1:1000 % The additional part after a has been found
       c = 1000 - (a+b); % The remainder after a and b are found
       if c > b \&\& a^2 + b^2 == c^2 \& Conditions for pythagorean triplet
          fprintf("a = %d\n", a) % Print a
          fprintf("b = %d\n", b) % Print b
          fprintf("c = %d\n", c) % Print c
       end
   end
end
%pythag
%a = 200
%b = 375
%c = 425
a = 200
b = 375
c = 425
```

Published with MATLAB® R2021b