```
function [cool matrix] = cool matrix(r,c)
% cool matrix will display a matrix with "k" number of rows and "h" number of
% columns.
% The matrix will have the following values:
  The value of each first row element will be the number of the column.
  The value of each first column element will be the number of the row.
  The rest of the elements' values will be the sum of the element above
      it and the element to the left.
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% Inputs:
      r is the number of the row
      c is the number of the column
% Outputs:
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      cool matrix will be the output.
% January 30 2018
% Created by Corbyn Berg
r=input('r rows');
                    % User types in the number of rows desired
c=input('c columns'); % User types in the number of columns desierd
for k=1:r
   for h=1:c
            cool matrix(k,h)=h; % The value of the first row will be the
                               % number of the column.
        elseif h==1
            cool\ matrix(k,h)=k; % The value of the first column will be the
                               % number of the row.
        else
            cool matrix (k,h) = cool matrix (k-1,h) + cool matrix (k,h-1);
                        %The element is the sum of the element above and to
                        %the left.
        end
   end
end
                  % Displays the matrix in the command window
disp(cool matrix)
```