```
function y=RandomPermutation(A)
% return random permutation of matrix A
% unlike randperm(n) that give permutation of integer 1:n only,
% RandomPermutation rearrange member of matrix A randomly
% This function is useful for MonteCarlo Simulation, Bootstrap sampling, game, etc
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% (http://people.revoledu.com/kardi/)
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% example:
  A=magic(3)
  RandomPermutation(A)
if nargin<1,</pre>
   A = [2, 1, 5, 3];
end
[r,c]=size(A);
                          % convert to column vector
b=reshape(A,r*c,1);
x=randperm(r*c);
                          % make integer permutation of similar array as key
w=[b,x'];
                          % combine matrix and key
d=sortrows(w,2);
                          % sort according to key
y=reshape(d(:,1),r,c);
                         % return back the matrix
       ans =
                 5
                     3
                            1
```

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