rref matrix

```
clear all; clc;
%A2=[1 0 1 1 1;0 0 0 1 1;0 1 0 1 1;0 1 0 0 1];
%A2=[1 0 1 0 1;0 0 0 1 1;0 1 0 1 0;0 1 0 0 1];
%A2=[1 0 1 1 1;0 1 0 1 1;0 1 0 0 1;0 0 0 1 0];
%A2=[0 1 0 1 1; 0 0 1 1 1;1 0 1 1 1;1 0 0 0 1];
%A2=[1 0 0 0 1 1;0 1 0 1 1 0;1 1 1 0 0 0;0 1 0 1 0 1;1 1 0 0 1 1]
%A2=[1 0 1 1 0 0;0 1 0 1 1 0;0 1 1 0 0 1;0 1 0 1 1 1;0 1 1 0 1 1]
%A2=[1 1 1 0 0 0;0 0 0  1 1 1;0 0 0 1 1 1;1 1 1 0 0 0]
A=A2;
[m,n] = size(A);

% Loop over the entire matrix.
```

basic matrix	rref matrix
A2 = 1 0 1 1 1 0 0 0 1 1 0 1 0 1 1 0 1 0 0 1	A = 1 0 1 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 1
A2 = 1 0 1 0 1 0 0 0 1 1 0 1 0 1 0 0 1 0 0 1	A = 1 0 1 0 1 0 1 0 0 1 0 0 0 1 1 0 0 0 0 0
A2 = 1 0 1 1 1 0 1 0 1 1 0 1 0 0 1 0 0 0 1 0	A = 1 0 1 0 1 0 1 0 0 1 0 0 0 1 0 0 0 0 0 0
A2 = 0 1 0 1 1 0 0 1 1 1 1 0 1 1 1 1 0 0 0 1	A = 1 0 0 0 0 0 1 0 1 0 0 0 1 1 0 0 0 0 0 1
A2 = 1 0 0 0 1 1 0 1 0 1 1 0 1 1 1 0 0 0 0 1 0 1 0 1 1 1 0 0 1 1	A = 1 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 1 0 0 0 0 1 1

A2 =

1	0	1	1	0	0
0	1	0	1	1	0
0	1	1	0	0	1
0	1	0	1	1	1
0	1	1	0	1	1

A =

1	0	0	0	0	0
0	1	0	1	0	0
0	0	1	1	0	0
0	0	0	0	1	0
0	0	0	0	0	1

A2 =

1	1	1	0	0	0
0	0	0	1	1	1
0	0	0	1	1	1
1	1	1	0	0	0

A =

1	1	1	0	0	0
0	0	0	1	1	1
0	0	0	0	0	0
0	0	0	0	0	0