

```
>> format rat
>> M=[0 1 1 1; 1 1 0 0; 1 0 1 0; 1 0 1 0];
>> rref(M)
```

```
ans =
```

```
    1         0         0        -1/2
    0         1         0         1/2
    0         0         1         1/2
    0         0         0          0
```

```
>> N=[0 1 1 ; 1 1 0 ; 1 0 1 ; 1 0 1];
>> rref(N)
```

```
ans =
```

```
    1         0         0
    0         1         0
    0         0         1
    0         0         0
```

```
>> R=[N , eye(4)];
>> rref(R)
```

```
ans =
```

```
Columns 1 through 5
```

```
    1         0         0        -1/2         1/2
    0         1         0         1/2         1/2
    0         0         1         1/2        -1/2
    0         0         0          0          0
```

```
Columns 6 through 7
```

```
    0         1/2
    0        -1/2
    0         1/2
    1         -1
```

```
>>
```