/home/dbtsai/homework/2012-01_stanford_stats315a/hw/hw4/preprocessing.m Page 1 of 1 Wed 14 Mar 2012 02:30:12 PM PDT

```
1 function [X, X2] = preprocessing(X,X2)
3
   [raw col] = size(X);
4
   mean_val = zeros(col,1);
5
6
   for i=1:col
7
       mean val(i) = mean(X(:,i));
8
       for j=1:raw
9
            if X(j,i) > mean_val(i)
10
                X(j,i) = 1;
11
            else
12
                X(j,i) = 0;
13
            end
14
       end
15
   end
16
17
   [raw col] = size(X2);
18
19
   for i=1:col
20
       for j=1:raw
21
            if X2(j,i) > mean_val(i)
22
                X2(j,i) = 1;
            else
23
24
                X2(j,i) = 0;
25
            end
26
       end
27
   end
28
```