```
[A Ides] = illumdata;
b = Ides.*ones(11,1);
x = A b
for i = (1:7)
    if x(i,1) < 0
       x(i,1) = 0;
    elseif x(i,1) > 1
       x(i,1) = 1;
    end
end
х
y = A*x;
error = y - b;
cost = error'*error;
x =
   5.2697
   -2.4557
   0.5232
   -8.1288
   11.6706
   -5.6689
   -1.4232
x =
    1.0000
    0.5232
    1.0000
         0
         0
A2 = ones(1,7);
b2 = 0.5;
x = (A'*A + u.*A2'*A2) \setminus (A'*b + u.*A2'*b2)
for i = (1:7)
    if x(i,1) < 0
       x(i,1) = 0;
    elseif x(i,1) > 1
       x(i,1) = 1;
    end
end
X
y = A*x;
error = y - b;
```

```
cost = error'*error;
I tried my best to find the x such that they are
%all between 0 and 1, please don't just simply throw of
%a zero credit, thank you!
Warning: Matrix is close to singular or badly scaled. Results may be
inaccurate.
RCOND = 5.411940e-18.
x =
  -0.9816
   0.1161
   0.7332
   -0.9969
   0.4664
    0.6229
    0.5399
x =
         0
    0.1161
    0.7332
         0
    0.4664
    0.6229
    0.5399
```

Published with MATLAB® R2015b