
```
clc
clear all
close all

% MATRIX_OPERATION
% ID 2017KUCP1011
% Name Ashish Uniyal

x= round(255*rand(3,3));
x
a=1;
c=x(2,2);
y=zeros(3,3);
while a<=3
    b=1;
    while b<=3
        if x(a,b)<=c
            y(a,b)=0;
        else
            y(a,b)=1;
        end;
        b=b+1;
    end;
    a=a+1;
end;
y(2,2)=c;
y
z=zeros(1,8);
z(1,1)=y(2,3);
z(1,2)=y(1,3);
z(1,3)=y(1,2);
z(1,4)=y(1,1);
z(1,5)=y(2,1);
z(1,6)=y(3,1);
z(1,7)=y(3,2);
z(1,8)=y(3,3);
z
w=zeros(1,8);
d=1;
while d<=8
    w(1,d)=(2^(d-1))*z(1,d);
    d=d+1;
end;
w
sum=0;
e=1;
while e<=8
    sum=sum+w(1,e);
    e=e+1;
end;
x(2,2)=sum;
x
```

$x =$

246	244	36
40	124	108
248	204	234

$y =$

1	1	0
0	124	0
1	1	1

$z =$

0	0	1	1	0	1	1	1
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$w =$

0	0	4	8	0	32	64	128
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$x =$

246	244	36
40	236	108
248	204	234

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