Q1

%{

fill i'st row with 1 until reach the column x(given number)

fill i'st column with 1 until reach the row x(given number)

go i+2 row and column

for 1:size by adding 2

for i: to x;

%}

function result = Q1(x)

for i=1:+2:x

for y=i:x

result(i,y)=1;

result(y,i)=1;

end

end

end

Q2

%{

check if the given number is odd or not

if it is odd

m=mid point of the odd number

for i=1: until reach the mid point

for j=1: 2\*rownumber-1

fill i'st row with 1 for j

fill N-i row with 1 for j

end

end

if it is even

m = half of given number

for i=1: to mid

for j=1: to 2\*row number

fill i'st row with 1 for j

fill N-i row with 1 for j

end

end

%}

function x = Q2(b)

a = mod(b,2);

if a==1

m= b/2+.5;

for i=1:m;

for j=1:2\*i-1

x(i,m-j+i)=1;

x(b-i+1,m-j+i)=1

end

end

else

m=b/2;

for i=1:m

for j=1:2\*i

x(i,m-j+i+1)=1;

x(b-i+1,m-j+i+1)=1

end

end

end

Q3

%{

assign first element of array with output array firs element

give output array's first row second column one

rcs =1 ; indicates that lenght of output array

for i:2 until reach length of given array

p=0; p indicates that if array i'st number is already added to output

array or not

for j: until reacj output array's length

if output(j,1) includes x(i)

than result(j,2)++

p=1;

end

end

if p==0

rcs++

add output array a new row which is x(i)

and make it 1;

end

end

end

%}

function result = Q3(x)

result(1,1)= x(1);

result(1,2) =1;

rcs=1;

for i=2:length(x)

p=0;

for j=1:rcs

if x(i)==result(j,1)

result(j,2) = result(j,2)+1;

p=1;

end

end

if p==0

rcs=rcs+1;

result(rcs,1)=x(i);

result(rcs,2)=1;

end

end

end

Q4

%{

[r,c] = find row and column size of x

for i= until row size

j=1 for counter

while j<(c/2)+1

temp= x(i,j)

x(i,j)=x(i,c-j+1);

x(i,c-j+1) = temp;

j=j+1;

end

end

%}

function result = Q4(x)

[r,c] = size(x);

for i=1:r

j=1;

while j<(c/2)+1

temp=x(i,j);

x(i,j)=x(i,c-j+1);

x(i,c-j+1) = temp;

j=j+1;

end

end

result = x;

end

Q5

%{

[r,c] = find row and column size of x

for i=2:r

for j=1:c

x(i,j)=x(i,j)-x(1,j);

end

end

%}

function x = Q5(x)

[r,c] = size(x);

for i=2 : r

for j=1:c

x(i,j)=x(i,j)-x(1,j);

end

end

end