3.5 （P68-69）

1.

x =

9 3 0 6 3

Trial>> y = mod((sqrt(length(((x+5).\*[1 2 3 4 5]))\*5)),3)

y =

2

2.

Trial>> vec = [4 5 2 8 4 7 2 64 2 57 2 45 7 43 2 5 7 3 3 6253 3 4 3 0 -65 -343]

Trial>> vecR = vec'

(1)

vecR =

4

5

2

8

4

7

2

64

2

57

2

45

7

43

2

5

7

3

3

6253

3

4

3

0

-65

-343

(2)

Trial>> [rows,cols] = size(vec)

Trial>> half\_index = round(cols/2)

Trial>> vecB = [vec(end:-1:half\_index),vec(1:half\_index)]

Columns 1 through 11

-343 -65 0 3 4 3 6253 3 3 7 5

Columns 12 through 22

2 43 7 4 5 2 8 4 7 2 64

Columns 23 through 27

2 57 2 45 7

(3)

Trial>> indexS = find(vec<45)

indexS =

1 2 3 4 5 6 7 9 11 13 14 15 16 17 18 19 21 22 23 24 25 26

Trial>> vecS = vec(indexS)

vecS =

4 5 2 8 4 7 2 2 2 7 43 2 5 7 3 3 3 4 3 0 -65 -343

(4)

Trial>> vec3R = vec(end:-1:1)

vec3R =

Columns 1 through 11

-343 -65 0 3 4 3 6253 3 3 7 5

Columns 12 through 22

2 43 7 45 2 57 2 64 2 7 4

Columns 23 through 26

8 2 5 4

(5)

Trial>> vecN = find(vec==2|vec==4)

vecN =

1 3 5 7 9 11 15 22

（6）

Trial>> mask = [[1:2:length(vec)],find(vec==2|vec==4)]

mask =

1 3 5 7 9 11 13 15 17 19 21 23 25 1 3 5 7 9 11 15 22

Trial>> vec(mask) =[]

vec =

Columns 1 through 11

5 8 7 64 57 45 43 5 3 6253 0

Column 12

-343