

def perimeter (listing)

len = 4

Perimeter = 0

for i in range (n-1)

for i = 0

$$((1-2)^2 + (3-7)^2)^{1/2}$$

$$\text{Perimeter} = 4.12310$$

for i = 1

$$= ((2-3)^2 + (7-9)^2)^{1/2} = 2.23606$$

$$\text{Perimeter} = 6.35916$$

for i = 2

$$((3-(-1))^2 + (9-8)^2)^{1/2} = 4.12310$$

$$\text{Perimeter} = 10.38226$$

$$\text{Perimeter} = 10.38226 + ((1-(-1))^2 + (3-8)^2)^{1/2}$$

$$\text{return} = 15.7674$$

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Activity 8

Day:

$$c[indrow][indcol] = c[indrow][indcol] + a[indrow][indaux] \times b[indaux][indcol]$$

$$a = \begin{bmatrix} 1, 0, 0 \\ 0, 1, 0 \\ 0, 0, 1 \end{bmatrix}$$

$$b = \begin{bmatrix} 1, 2, 3 \\ 4, 5, 6 \\ 7, 8, 9 \end{bmatrix}$$

$$indrow = 0, indcol = 0, indaux = 0$$

$$c[0][0] = c[0][0] + a[0][0] \times b[0][0]$$

$$c[0][0] = 0 + (1) \times (1) = 1$$

$$indaux = 1$$

$$c[0][0] = c[0][0] + a[0][1] \times b[1][0]$$

$$= 1 + 0 \times 4 = 1$$

$$indaux = 2$$

$$c[0][0] = c[0][0] + a[0][2] \times b[2][0]$$

$$= 1 + 0 \times 7 = 1$$

$$indrow = 0, indcol = 1, indaux = 0$$

$$c[0][1] = c[0][1] + a[0][0] \times b[0][1]$$

$$= 0 + 1 \times 2 = 2$$

$$indaux = 1$$

$$c[0][1] = c[0][1] + a[0][1] \times b[1][1]$$

$$= 2 + 0 \times 5 = 2$$

$$indaux = 2$$

$$c[0][1] = c[0][1] + a[0][2] \times b[2][1]$$

$$= 2 + 0 \times 8 = 2$$

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ind row = 0, ind col = 2, ind aux = 0

$$c[0][2] = c[0][2] + a[0][0] \times b[0][2] \\ = 0 + 1 \times 3 = 3$$

ind aux = 1

$$c[0][2] = c[0][2] + a[0][1] \times b[1][1] \\ = 3 + 0 \times 6 = 3$$

ind aux = 2

$$c[0][2] = c[0][2] + a[0][2] \times b[2][2] \\ = 3 + 0 \times 9 = 3$$

ind row = 1, ind col = 1, ind aux = 0

$$c[1][0] = c[1][0] + a[1][0] \times b[0][0] \\ = 0 + 0 \times 1 = 0$$

ind aux = 1

$$c[1][0] = c[1][0] + a[1][1] \times b[1][0] \\ = 0 + 1 \times 4 = 4$$

ind aux = 2

$$c[1][0] = c[1][0] + a[1][2] \times b[2][0] \\ = 4 + 0 \times 1 = 4$$

ind row = 1, ind col = 1, ind aux = 0

$$c[1][1] = c[1][1] + a[1][0] \times b[0][1] \\ = 0 + a[1][0] \times b[0][1] \\ = 0 + 0 \times 2 = 0$$

ind row = 1, ind col = 1, ind aux = 1

$$c[1][1] = c[1][1] + a[1][1] \times b[1][1] \\ = 0 + 1 \times 5 = 5$$

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FA20-BSE-005

Day:

$\text{ind row} = 1, \text{ind col} = 1, \text{ind aux} = 2$

$$c[1][1] = c[1][1] + a[1][2] \times b[2][1] \\ = 5 + 0 \times 8 = 5$$

$\text{ind row} = 1, \text{ind col} = 2, \text{ind aux} = 0$

$$c[1][2] = c[1][2] + a[1][0] \times b[0][2] \\ = 0 + 0 \times 3 = 0$$

$\text{ind aux} = 1$

$$c[1][2] = c[1][2] + a[1][1] \times b[1][2] \\ = 0 + 1 \times 6 = 6$$

$\text{ind aux} = 2$

$$c[1][2] = c[1][2] + a[1][2] \times b[2][2] \\ = 6 + 0 \times 9 = 6$$

$\text{ind row} = 2, \text{ind col} = 0, \text{ind aux} = 0$

$$c[2][0] = c[2][0] + a[2][0] \times b[0][0] \\ = 0 + 0 \times 1 = 0$$

$\text{ind aux} = 1$

$$c[2][0] = c[2][0] + a[2][1] \times b[1][0] \\ = 0 + 0 \times 4 = 0$$

$\text{ind aux} = 2$

$$c[2][0] = c[2][0] + a[2][2] \times b[2][0] \\ = 0 + 1 \times 7 = 7$$

$\text{ind row} = 2, \text{ind col} = 1, \text{ind aux} = 0$

$$c[2][1] = c[2][1] + a[2][0] \times b[0][1] \\ = 0 + 0 \times 2 = 0$$

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Day:

$$\text{ind aux} = 1$$

$$c[2][1] = c[2][1] + a[2][1] \times b[1][1] \\ = 0 + 0 \times 5 = 0$$

$$\text{ind aux} = 2$$

$$c[2][1] = c[2][1] + a[2][2] \times b[2][1] \\ = 0 + 1 \times 8 = 8$$

$$\text{ind row} = 2, \text{ind col} = 2, \text{ind aux} = 0$$

$$c[2][2] = c[2][2] + a[2][0] \times b[0][2] \\ = 0 + 0 \times 3 = 0$$

$$\text{ind aux} = 1$$

$$c[2][2] = c[2][2] + a[2][1] \times b[1][2] \\ = 0 + 0 \times 6 = 0$$

$$\text{ind aux} = 2$$

$$c[2][2] = c[2][2] + a[2][2] \times b[2][2] \\ = 0 + 1 \times 9 = 9$$

$$c \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{bmatrix}$$