Bài 1

## Loop 0

Expand:(0, 0)

Prontier:

(0, 1): h=128

(1, 0): h=130

(1, 1): h=113

## Loop 1

Expand:(1, 1)

Prontier:

(0, 1): h=128

(1, 0): h=130

(1, 2): h=98

(0, 0): h=145

(0, 2): h=113

(2, 0): h=117

(2, 2): h=85

## Loop 2

Expand:(2, 2)

Prontier:

(0, 1): h=128

(1, 0): h=130

(1, 2): h=98

(0, 0): h=145

(0, 2): h=113

(2, 0): h=117

(2, 3): h=72

(3, 2): h=74

(1, 1): h=113

(1, 3): h=85

(3, 3): h=61

## Loop 3

Expand:(3, 3)

Prontier:

(0, 1): h=128

(1, 0): h=130

(1, 2): h=98

(0, 0): h=145

(0, 2): h=113

(2, 0): h=117

(2, 3): h=72

(3, 2): h=74

(1, 1): h=113

(1, 3): h=85

(3, 4): h=50

(2, 2): h=85

(2, 4): h=61

## Loop 4

Expand:(3, 4)

Prontier:

(0, 1): h=128

(1, 0): h=130

(1, 2): h=98

(0, 0): h=145

(0, 2): h=113

(2, 0): h=117

(2, 3): h=72

(3, 2): h=74

(1, 1): h=113

(1, 3): h=85

(2, 2): h=85

(2, 4): h=61

(3, 3): h=61

## Loop 5

Expand:(2, 4)

Prontier:

(0, 1): h=128

(1, 0): h=130

(1, 2): h=98

(0, 0): h=145

(0, 2): h=113

(2, 0): h=117

(2, 3): h=72

(3, 2): h=74

(1, 1): h=113

(1, 3): h=85

(2, 2): h=85

(3, 3): h=61

(1, 4): h=74

(3, 4): h=50

(3, 3): h=61

## Loop 6

Expand:(3, 4)

Prontier:

(0, 1): h=128

(1, 0): h=130

(1, 2): h=98

(0, 0): h=145

(0, 2): h=113

(2, 0): h=117

(2, 3): h=72

(3, 2): h=74

(1, 1): h=113

(1, 3): h=85

(2, 2): h=85

(3, 3): h=61

(1, 4): h=74

(3, 3): h=61

(2, 4): h=61

## Loop 7

Expand:(3, 3)

Prontier:

(0, 1): h=128

(1, 0): h=130

(1, 2): h=98

(0, 0): h=145

(0, 2): h=113

(2, 0): h=117

(2, 3): h=72

(3, 2): h=74

(1, 1): h=113

(1, 3): h=85

(2, 2): h=85

(1, 4): h=74

(3, 3): h=61

(2, 4): h=61

(3, 4): h=50

(2, 4): h=61

## Loop 8

Expand:(3, 4)

Prontier:

(0, 1): h=128

(1, 0): h=130

(1, 2): h=98

(0, 0): h=145

(0, 2): h=113

(2, 0): h=117

(2, 3): h=72

(3, 2): h=74

(1, 1): h=113

(1, 3): h=85

(2, 2): h=85

(1, 4): h=74

(3, 3): h=61

(2, 4): h=61

(2, 4): h=61

## Loop9

Expand:(3, 3)

Prontier:

(0, 1): h=128

(1, 0): h=130

(1, 2): h=98

(0, 0): h=145

(0, 2): h=113

(2, 0): h=117

(2, 3): h=72

(3, 2): h=74

(1, 1): h=113

(1, 3): h=85

(2, 2): h=85

(1, 4): h=74

(2, 4): h=61

(2, 4): h=61

(3, 4): h=50

(2, 4): h=61

## Loop 10

Expand:(3, 4)

Prontier:

(0, 1): h=128

(1, 0): h=130

(1, 2): h=98

(0, 0): h=145

(0, 2): h=113

(2, 0): h=117

(2, 3): h=72

(3, 2): h=74

(1, 1): h=113

(1, 3): h=85

(2, 2): h=85

(1, 4): h=74

(2, 4): h=61

(2, 4): h=61

(2, 4): h=61

(3, 3): h=61

## Loop 11

Expand:(2, 4)

Prontier:

(0, 1): h=128

(1, 0): h=130

(1, 2): h=98

(0, 0): h=145

(0, 2): h=113

(2, 0): h=117

(2, 3): h=72

(3, 2): h=74

(1, 1): h=113

(1, 3): h=85

(2, 2): h=85

(1, 4): h=74

(2, 4): h=61

(2, 4): h=61

(3, 3): h=61

(3, 4): h=50

(3, 3): h=61

## Loop 12

Expand:(3, 4)

Prontier:

(0, 1): h=128

(1, 0): h=130

(1, 2): h=98

(0, 0): h=145

(0, 2): h=113

(2, 0): h=117

(2, 3): h=72

(3, 2): h=74

(1, 1): h=113

(1, 3): h=85

(2, 2): h=85

(1, 4): h=74

(2, 4): h=61

(2, 4): h=61

(3, 3): h=61

(3, 3): h=61

## Loop 13

Expand:(2, 4)

Prontier:

(0, 1): h=128

(1, 0): h=130

(1, 2): h=98

(0, 0): h=145

(0, 2): h=113

(2, 0): h=117

(2, 3): h=72

(3, 2): h=74

(1, 1): h=113

(1, 3): h=85

(2, 2): h=85

(1, 4): h=74

(2, 4): h=61

(3, 3): h=61

(3, 3): h=61

(3, 4): h=50

(3, 3): h=61

## Loop 14

Expand:(3, 4)

Prontier:

(0, 1): h=128

(1, 0): h=130

(1, 2): h=98

(0, 0): h=145

(0, 2): h=113

(2, 0): h=117

(2, 3): h=72

(3, 2): h=74

(1, 1): h=113

(1, 3): h=85

(2, 2): h=85

(1, 4): h=74

(2, 4): h=61

(3, 3): h=61

(3, 3): h=61

(3, 3): h=61

## Loop 15

Expand:(2, 4)

Prontier:

(0, 1): h=128

(1, 0): h=130

(1, 2): h=98

(0, 0): h=145

(0, 2): h=113

(2, 0): h=117

(2, 3): h=72

(3, 2): h=74

(1, 1): h=113

(1, 3): h=85

(2, 2): h=85

(1, 4): h=74

(3, 3): h=61

(3, 3): h=61

(3, 3): h=61

(3, 4): h=50

(3, 3): h=61