

Pembuktian Bubble Sort

[Cetak:]

Masukkan sebuah bilangan :

[Input total:]

5

[total = 5]

[a = 0, apakah a < total?

apakah 0 < 5? Ya]

[Cetak:]

Masukkan nilai pada INDEX ke-1 :

[Input data[0]:]

32

[Isi variabel data[0] = 32]

[a = 1, apakah a < total?

apakah 1 < 5? Ya]

[Cetak:]

Masukkan nilai pada INDEX ke-2 :

[Input data[1]:]

7

[Isi variabel data[1] = 7]

[a = 2, apakah a < total?

apakah 2 < 5? Ya]

[Cetak:]

Masukkan nilai pada INDEX ke-3 :

[Input data[2]:]

13

[Isi variabel data[2] = 13]

[a = 3, apakah a < total?

apakah 3 < 5? Ya]

[Cetak:]

Masukkan nilai pada INDEX ke-4 :

[Input data[3]:]

4

[Isi variabel data[3] = 4]

[a = 4, apakah a < total?

apakah $4 < 5$? Ya]

[Cetak:]

Masukkan nilai pada INDEX ke-5 :

[Input data[4]:]

9

[Isi variabel data[4] = 9]

[a = 5, apakah $a < \text{total}$?

apakah $5 < 5$? Tidak]

[Cetak:]

Sebelum disorting :

[a = 0, apakah $a < \text{total}$?

apakah $0 < 5$? Ya]

[Cetak:]

32

[a = 1, apakah $a < \text{total}$?

apakah $1 < 5$? Ya]

[Cetak:]

7

[a = 2, apakah a < total ?

apakah 2 < 5? Ya]

[Cetak:]

13

[a = 3, apakah a < total ?

apakah 3 < 5? Ya]

[Cetak:]

4

[a = 4, apakah a < total ?

apakah 4 < 5? Ya]

[Cetak:]

9

[a = 5, apakah a < total ?

apakah 5 < 5? Tidak]

[i = 0, apakah i < total-1 ?

apakah 0 < 4? Ya]

[j = -1295517136, apakah j < total-1 ?

apakah 0 < 4? Ya]

[Apakah data[0] > data[1]?

32 > 7? Ya]

[Temp = data[j+1] = data[1] = 7]

[data[j+1] = data[j]

data[1] = data[0] = 32]

[data[j] = Temp

data[0] = 7

[j = -1295517136, apakah j < total-1 ?

apakah 1 < 4? Ya]

[Apakah data[1] > data[2]?

32 > 13? Ya]

[Temp = data[j+1] = data[2] = 13]

[data[j+1] = data[j]

data[2] = data[1] = 32]

[data[j] = Temp

data[1] = 13

[j = -1295517136, apakah j < total-1 ?

apakah 2 < 4? Ya]

[Apakah data[2] > data[3]?

32 > 4? Ya]

[Temp = data[j+1] = data[3] = 4]

[data[j+1] = data[j]

data[3] = data[2] = 32]

[data[j] = Temp

data[2] = 4

[j = -1295517136, apakah j < total-1 ?

apakah 3 < 4? Ya]

[Apakah data[3] > data[4]?

32 > 9? Ya]

[Temp = data[j+1] = data[4] = 9]

[data[j+1] = data[j]

data[4] = data[3] = 32]

[data[j] = Temp

data[3] = 9

[j = 4, apakah j < total-1 ?

apakah 4 < 4? Tidak]

[i = 1, apakah i < total-1 ?

apakah 1 < 4? Ya]

[j = -1295517136, apakah j < total-1 ?

apakah 0 < 4? Ya]

[Apakah data[0] > data[1]?

7 > 13?

[j = 7, apakah j < total-1 ?

apakah 1 < 4? Ya]

[Apakah data[1] > data[2]?

13 > 4? Ya]

[Temp = data[j+1] = data[2] = 4]

[data[j+1] = data[j]

data[2] = data[1] = 13]

[data[j] = Temp

data[1] = 4

[j = -1295517136, apakah j < total-1 ?

apakah 2 < 4? Ya]

[Apakah data[2] > data[3]?

13 > 9? Ya]

[Temp = data[j+1] = data[3] = 9]

[data[j+1] = data[j]

data[3] = data[2] = 13]

[data[j] = Temp

data[2] = 9

[j = -1295517136, apakah j < total-1 ?

apakah 3 < 4? Ya]

[Apakah data[3] > data[4]?

13 > 32?

[j = 4, apakah j < total-1 ?

apakah 4 < 4? Tidak]

[i = 2, apakah i < total-1 ?

apakah 2 < 4? Ya]

[j = -1295517136, apakah j < total-1 ?

apakah 0 < 4? Ya]

[Apakah data[0] > data[1]?

7 > 4? Ya]

[Temp = data[j+1] = data[1] = 4]

[data[j+1] = data[j]

data[1] = data[0] = 7]

[data[j] = Temp

data[0] = 4

[j = -1295517136, apakah j < total-1 ?

apakah 1 < 4? Ya]

[Apakah data[1] > data[2]?

7 > 9?

[j = 7, apakah j < total-1 ?

apakah 2 < 4? Ya]

[Apakah data[2] > data[3]?

9 > 13?

[j = 9, apakah j < total-1 ?

apakah 3 < 4? Ya]

[Apakah data[3] > data[4]?

13 > 32?

[j = 4, apakah j < total-1 ?

apakah 4 < 4? Tidak]

[i = 3, apakah i < total-1 ?

apakah 3 < 4? Ya]

[j = -1295517136, apakah j < total-1 ?

apakah $0 < 4$? Ya]

[Apakah $\text{data}[0] > \text{data}[1]$?

$4 > 7$?

[j = 4, apakah $j < \text{total}-1$?

apakah $1 < 4$? Ya]

[Apakah $\text{data}[1] > \text{data}[2]$?

$7 > 9$?

[j = 7, apakah $j < \text{total}-1$?

apakah $2 < 4$? Ya]

[Apakah $\text{data}[2] > \text{data}[3]$?

$9 > 13$?

[j = 9, apakah $j < \text{total}-1$?

apakah $3 < 4$? Ya]

[Apakah $\text{data}[3] > \text{data}[4]$?

$13 > 32$?

[j = 4, apakah $j < \text{total}-1$?

apakah $4 < 4$? Tidak]

[i = 4, apakah $i < \text{total}-1$?

apakah $4 < 4$? Tidak]

[Cetak:]

Sesudah disorting :

[a = 0, apakah a < total ?

apakah 0 < 5? Ya]

[Cetak:]

4

[a = 1, apakah a < total ?

apakah 1 < 5? Ya]

[Cetak:]

7

[a = 2, apakah a < total ?

apakah 2 < 5? Ya]

[Cetak:]

9

[a = 3, apakah a < total ?

apakah 3 < 5? Ya]

[Cetak:]

13

[a = 4, apakah a < total ?

apakah 4 < 5? Ya]

[Cetak:]

32

[a = 5, apakah a < total ?

apakah 5 < 5? Tidak]

Note: Yang dikasih kurung siku [.....] adalah alur pembuktian-nya. Yang dicetak tebal adalah input dan outputnya.