

maximum

25

list

1

0

2

0

3

0

4

1

5

0

6

1

7

0

8

1

9

1

10

1

+ length 25 =

primes

1

1

2

2

3

3

4

5

5

7

6

11

7

13

8

17

9

19

10

23

+ length 10 =

when  clicked

broadcast fill list with zeros (0) and wait

broadcast put ones (1) in list at multiples and wait

broadcast fill primes where zeros (0) in list

when I receive fill list with zeros (0)

delete all of primes

delete all of list

set i to 0

set maximum to 25

repeat maximum

add 0 to list

change i by 1

when I receive fill primes where zeros (0) in list

repeat maximum

if item k of list = 0 then

add k to primes

set k to k + 1

when I receive put ones (1) in list at multiples ▾

set S ▾ to sqrt ▾ of maximum

set i ▾ to 2

set k ▾ to 0

repeat S

change J ▾ by 1

set i ▾ to 2

repeat until i > 100

if not i = J then

if item i of list ▾ = 0 then

set m ▾ to i mod J

if m = 0 then

replace item i of list ▾ with 1

change i ▾ by 1

set k ▾ to 1

delete all of primes ▾

set J ▾ to 1