

Testing Report
Suqian Wang
Section 502

- gcd function using (12, 15) and Ackermann function using (1,1)

implementing the gcd function now.

input two positive integers as the arguments:

12 15

the result is :

(12, 15)

(15, 12)

(12, 3)

(3, 0)

3

the function have been invoked 4 times.

implementing the Ackermann function now.

input two nonnegative integers as the arguments:

1 1

the result is :

(1, 1) (1, 0) (0, 1) (0, 2) 3

the function have been invoked 4 times.

- gcd function using (228, 133) and Ackermann function using (2,2)

the gcd function now.

input two positive integers as the arguments:

228 133

the result is :

(228, 133)

(133, 95)

(95, 38)

(38, 19)

(19, 0)

19

the function have been invoked 5 times.

implementing the Ackermann function now.

input two nonnegative integers as the arguments:

2 2

the result is :

(2, 2) (2, 1) (2, 0) (1, 1) (1, 0) (0, 1) (0, 2) (1, 3) (1, 2) (1, 1) (1, 0) (0, 1) (0, 2) (0, 3) (0, 4) (1, 5) (1, 4) (1, 3) (1, 2) (1, 1)
(1, 0) (0, 1) (0, 2) (0, 3) (0, 4) (0, 5) (0, 6) 7

the function have been invoked 27 times.

- gcd function using (576, 414) and Ackermann function using (2,3)
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implementing the gcd function now.

input two positive integers as the arguments:

576 414

the result is :

(576, 414)

(414, 162)

(162, 90)

(90, 72)

(72, 18)

(18, 0)

18

the function have been invoked 6 times.

implementing the Ackermann function now.

input two nonnegative integers as the arguments:

2 3

the result is :

(2, 3) (2, 2) (2, 1) (2, 0) (1, 1) (1, 0) (0, 1) (0, 2) (1, 3) (1, 2) (1, 1) (1, 0) (0, 1) (0, 2) (0, 3) (0, 4) (1, 5) (1, 4) (1, 3) (1, 2)
(1, 1) (1, 0) (0, 1) (0, 2) (0, 3) (0, 4) (0, 5) (0, 6) (1, 7) (1, 6) (1, 5) (1, 4) (1, 3) (1, 2) (1, 1) (1, 0) (0, 1) (0, 2) (0, 3) (0, 4)
(0, 5) (0, 6) (0, 7) (0, 8) 9

the function have been invoked 44 times.

- gcd function using (1071, 924) and Ackermann function using (3,3)
-

implementing the gcd function now.

input two positive integers as the arguments:

1071 924

the result is :

(1071, 924)

(924, 147)

(147, 42)

(42, 21)

(21, 0)

21

the function have been invoked 5 times.

implementing the Ackermann function now.

input two nonnegative integers as the arguments:

3 3

the result is :

(3, 3) (3, 2) (3, 1) (3, 0) (2, 1) (2, 0) (1, 1) (1, 0) (0, 1) (0, 2) (1, 3) (1, 2) (1, 1) (1, 0) (0, 1) (0, 2) (0, 3) (0, 4) (2, 5) (2, 4) (2, 3) (2, 2) (2, 1) (2, 0) (1, 1) (1, 0) (0, 1) (0, 2) (1, 3) (1, 2) (1, 1) (1, 0) (0, 1) (0, 2) (0, 3) (0, 4) (1, 5) (1, 4) (1, 3) (1, 2) (1, 1) (1, 0) (0, 1) (0, 2) (0, 3) (0, 4) (0, 5) (0, 6) (1, 7) (1, 6) (1, 5) (1, 4) (1, 3) (1, 2) (1, 1) (1, 0) (0, 1) (0, 2) (0, 3) (0, 4) (0, 5) (0, 6) (0, 7) (0, 8) (1, 9) (1, 8) (1, 7) (1, 6) (1, 5) (1, 4) (1, 3) (1, 2) (1, 1) (1, 0) (0, 1) (0, 2) (0, 3) (0, 4) (0, 5) (0, 6) (0, 7) (0, 8) (0, 9) (0, 10) (1, 11) (1, 10) (1, 9) (1, 8) (1, 7) (1, 6) (1, 5) (1, 4) (1, 3) (1, 2) (1, 1) (1, 0) (0, 1) (0, 2) (0, 3) (0, 4) (0, 5) (0, 6) (0, 7) (0, 8) (0, 9) (0, 10) (0, 11) (0, 12) (2, 13) (2, 12) (2, 11) (2, 10) (2, 9) (2, 8) (2, 7) (2, 6) (2, 5) (2, 4) (2, 3) (2, 2) (2, 1) (2, 0) (1, 1) (1, 0) (0, 1) (0, 2) (1, 3) (1, 2) (1, 1) (1, 0) (0, 1) (0, 2) (0, 3) (0, 4) (1, 5) (1, 4) (1, 3) (1, 2) (1, 1) (1, 0) (0, 1) (0, 2) (0, 3) (0, 4) (0, 5) (0, 6) (1, 7) (1, 6) (1, 5) (1, 4) (1, 3) (1, 2) (1, 1) (1, 0) (0, 1) (0, 2) (0, 3) (0, 4) (0, 5) (0, 6) (0, 7) (0, 8) (1, 9) (1, 8) (1, 7) (1, 6) (1, 5) (1, 4) (1, 3) (1, 2) (1, 1) (1, 0) (0, 1) (0, 2) (0, 3) (0, 4) (0, 5) (0, 6) (0, 7) (0, 8) (0, 9) (0, 10) (1, 11) (1, 10) (1, 9) (1, 8) (1, 7) (1, 6) (1, 5) (1, 4) (1, 3) (1, 2) (1, 1) (1, 0) (0, 1) (0, 2) (0, 3) (0, 4) (0, 5) (0, 6) (0, 7) (0, 8) (0, 9) (0, 10) (0, 11) (0, 12) (1, 13) (1, 12) (1, 11) (1, 10) (1, 9) (1, 8) (1, 7) (1, 6) (1, 5) (1, 4) (1, 3) (1, 2) (1, 1) (1, 0) (0, 1) (0, 2) (0, 3) (0, 4) (0, 5) (0, 6) (0, 7) (0, 8) (0, 9) (0, 10) (0, 11) (0, 12) (0, 13) (0, 14) (1, 15) (1, 14) (1, 13) (1, 12) (1, 11) (1, 10) (1, 9) (1, 8) (1, 7) (1, 6) (1, 5) (1, 4) (1, 3) (1, 2) (1, 1) (1, 0) (0, 1) (0, 2) (0, 3) (0, 4) (0, 5) (0, 6) (0, 7) (0, 8) (0, 9) (0, 10) (0, 11) (0, 12) (0, 13) (0, 14) (0, 15) (0, 16) (1, 17) (1, 16) (1, 15) (1, 14) (1, 13) (1, 12) (1, 11) (1, 10) (1, 9) (1, 8) (1, 7) (1, 6) (1, 5) (1, 4) (1, 3) (1, 2) (1, 1) (1, 0) (0, 1) (0, 2) (0, 3) (0, 4) (0, 5) (0, 6) (0, 7) (0, 8) (0, 9) (0, 10) (0, 11) (0, 12) (0, 13) (0, 14) (0, 15) (0, 16) (0, 17) (0, 18) (1, 19) (1, 18) (1, 17) (1, 16) (1, 15) (1, 14) (1, 13) (1, 12) (1, 11) (1, 10) (1, 9) (1, 8) (1, 7) (1, 6) (1, 5) (1, 4) (1, 3) (1, 2) (1, 1) (1, 0) (0, 1) (0, 2) (0, 3) (0, 4) (0, 5) (0, 6) (0, 7) (0, 8) (0, 9) (0, 10) (0, 11) (0, 12) (0, 13) (0, 14) (0, 15) (0, 16) (0, 17) (0, 18) (0, 19) (0, 20) (1, 21) (1, 20) (1, 19) (1, 18) (1, 17) (1, 16) (1, 15) (1, 14) (1, 13) (1, 12) (1, 11) (1, 10) (1, 9) (1, 8) (1, 7) (1, 6) (1, 5) (1, 4) (1, 3) (1, 2) (1, 1) (1, 0) (0, 1) (0, 2) (0, 3) (0, 4) (0, 5) (0, 6) (0, 7) (0, 8) (0, 9) (0, 10) (0, 11) (0, 12) (0, 13) (0, 14) (0, 15) (0, 16) (0, 17) (0, 18) (0, 19) (0, 20) (0, 21) (0, 22) (1, 23) (1, 22) (1, 21) (1, 20) (1, 19) (1, 18) (1, 17) (1, 16) (1, 15) (1, 14) (1, 13) (1, 12) (1, 11) (1, 10) (1, 9) (1, 8) (1, 7) (1, 6) (1, 5) (1, 4) (1, 3) (1, 2) (1, 1) (1, 0) (0, 1) (0, 2) (0, 3) (0, 4) (0, 5) (0, 6) (0, 7) (0, 8) (0, 9) (0, 10) (0, 11) (0, 12) (0, 13) (0, 14) (0, 15) (0, 16) (0, 17) (0, 18) (0, 19) (0, 20) (0, 21) (0, 22) (0, 23) (0, 24) (1, 25) (1, 24) (1, 23) (1, 22) (1, 21) (1, 20) (1, 19) (1, 18) (1, 17) (1, 16) (1, 15) (1, 14) (1, 13) (1, 12) (1, 11) (1, 10) (1, 9) (1, 8) (1, 7) (1, 6) (1, 5) (1, 4) (1, 3) (1, 2) (1, 1) (1, 0) (0, 1) (0, 2) (0, 3) (0, 4) (0, 5) (0, 6) (0, 7) (0, 8) (0, 9) (0, 10) (0, 11) (0, 12) (0, 13) (0, 14) (0, 15) (0, 16) (0, 17) (0, 18) (0, 19) (0, 20) (0, 21) (0, 22) (0, 23) (0, 24) (0, 25) (0, 26) (1, 27)

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