

Stack status of doing gcd(14,21)

gcd(int a, int b)

20 levels of stack for
gcd(14, 21)

b 21

a 14

return address

ebp

ebx

No memory space allocated for local variable

push non-volatile variable onto the stack

b¹
a¹

a % b 14

b 21

return address

ebp

ebx

b²

a²

7

21

return address

ebp

ebx

b³

a³

0

7

return address

ebp

ebx.