```
BT:
                    11 Save old frame pointer
     push ebp
     mor elp, esp Il Initialize new frame
      sub esp, 4 // Allocate space for local variables
     push ebx // Save non-Volatile negisters
      mov eax, [ebp+8] leax=a
      mov [ebp-4], eax //V=a
      mov eax, [ebp +12] //eax=6
      cmp eax, [ebp-4] 1/6-V
      jge min0/jump if bov
       mov [ebp-4], eax // V=b
 min0:
      mov eax, [ebp + 16] // eax = c
      cmp eax, [ebp-4] // c-V
      ige min! // jump if cav
      mov [ebp-4], eax
 min!
      MOU eax, [ebp-4] //return V
       pop ebx // restore non-volatile registers
       mou esp, elop // restore stack pointer
                  11 restone frame pointer
       pop ebp
       ret 0
P: push ebp
```

```
push ebp

Mov ebp, esp

Sub esp, 4

push ebx

push [ebp+12] | 11 Pass parameters right to left

push [ebp+8] | to min function

push [g]

call min

add csp, 12 || Remove parameters from Stack

mov [ebp-4], eax || V = min(...)

push [ebp+20] || Again pass parameters R-DL to

push [ebp+16] || min function

push [ebp-4]
```

```
add esp, 12 || Remove parameters from stack
pop ebx || Restore non-volatile registers
mov esp, ebp || Restore Stack pointer
pop ebp || Restore frame pointer
ret 0 || Note veturn value from min is
|| already in eax
```

```
gcd:
    push ebp
    mov ebp, esp
     push ebx
     mou eax, [ebp+12]
     test eax, eax 1/Test for eax ==0
     jne gcd o
     mou eax, [ebp+8]
     pop ebx
     mou esp, ebp
     pop ebp
     ret 0
 gcd 0:
     mov eax, [ebp+8]
      and edx, 0 11 Clear edx
      mov ebx, [ebp+12] //ebx=b
     div ebx 11 eax = eax 1 ebx with edx = eax % ebx
     push edx // Push parameters onto Stack (b)
     push ebx 11 (a)
     call gcd
      add esp, &
     pop ebx
     mov esp, ebp
     pop ebp
      ret o
```

