

**Initially**

%rax	0x123
%rdx	0
%rsp	0x108

**pushq %rax**

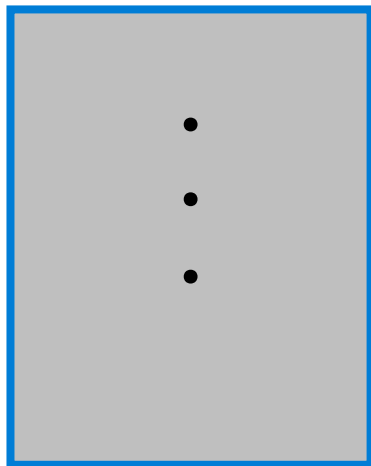
%rax	0x123
%rdx	0
%rsp	0x100

**popq %rdx**

%rax	0x123
%rdx	0x123
%rsp	0x108

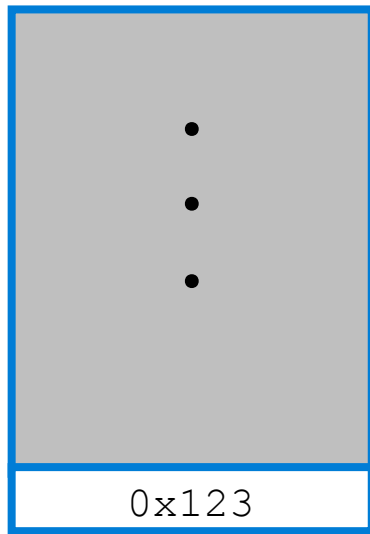
↑  
Increasing  
address

Stack “bottom”



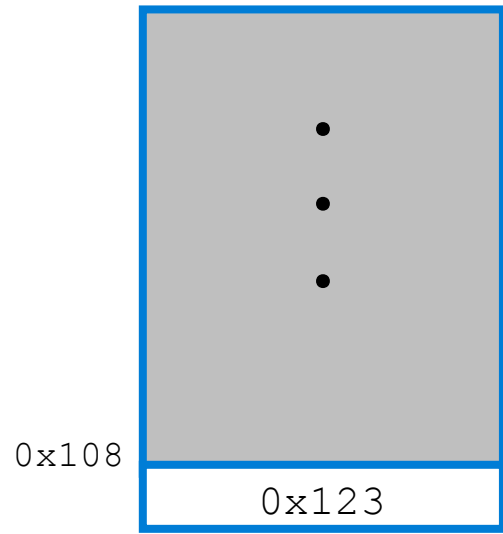
Stack “top”

Stack “bottom”



Stack “top”

Stack “bottom”



Stack “top”