

Structures in Assembly

Adalbert **Gerald** Soosai Raj



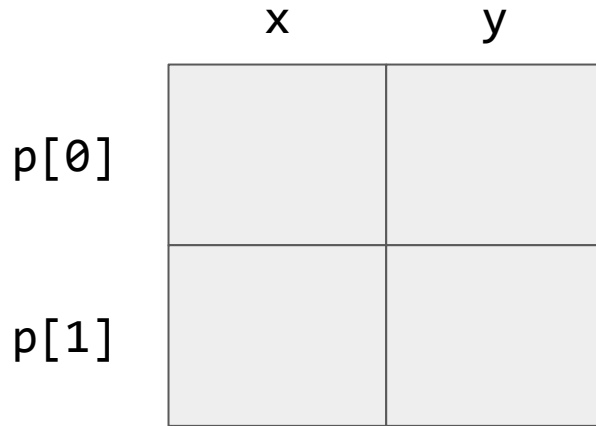
C

```
#define N 2

int func()
{
    struct point {
        int x;
        int y;
    };

    struct point p[N];
    int i;

    for (i = 0; i < N; ++i)
    {
        p[i].x = 0;
        p[i].y = 1;
    }
}
```

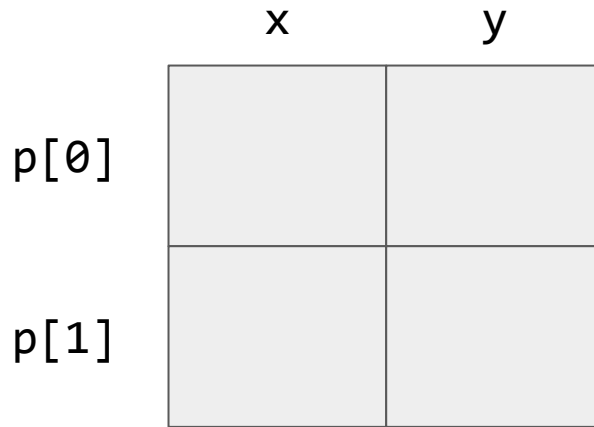


```
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int func()
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    };

    struct point p[N];
    int i;

    for (i = 0; i < N; ++i)
    {
        p[i].x = 0;
        p[i].y = 1;
    }
}
```

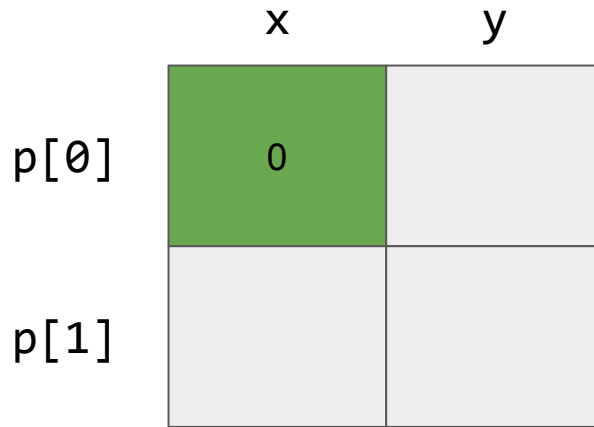


```
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int func()
{
    struct point {
        int x;
        int y;
    };

    struct point p[N];
    int i;

    for (i = 0; i < N; ++i)
    {
        p[i].x = 0;
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    }
}
```

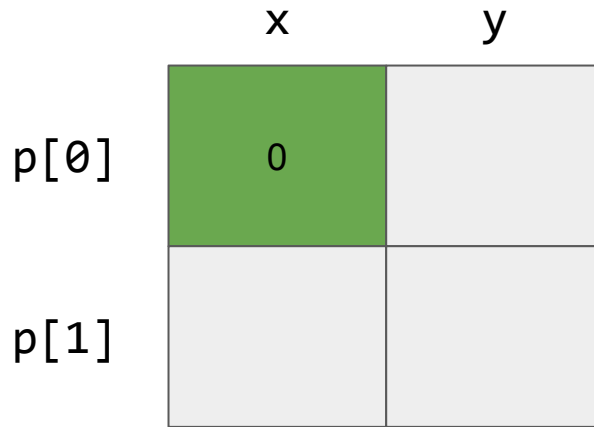


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    struct point p[N];
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    for (i = 0; i < N; ++i)
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```

	x	y
p[0]	0	1
p[1]		

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	x	y
p[0]	0	1
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	x	y
p[0]	0	1
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Assembly

func:

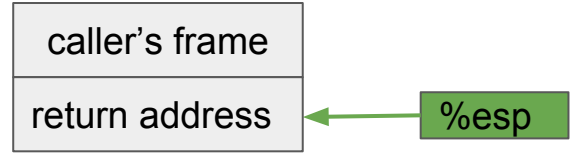
```
    pushl    %ebp
    movl    %esp, %ebp
    subl    $32, %esp
    movl    $0, -4(%ebp)
    jmp     .L2
```

.L3:

```
    movl    -4(%ebp), %eax
    movl    $0, -20(%ebp,%eax,8)
    movl    -4(%ebp), %eax
    movl    $1, -16(%ebp,%eax,8)
    addl    $1, -4(%ebp)
```

.L2:

```
    cmpl    $1, -4(%ebp)
    jle     .L3
    leave
    ret
```



%eax



func:

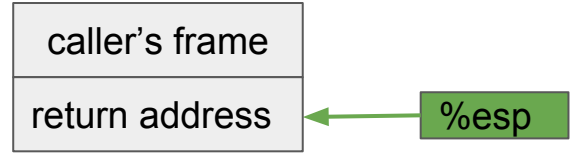
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.L2:

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cmpl    $1, -4(%ebp)
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ret
```



%eax



func:

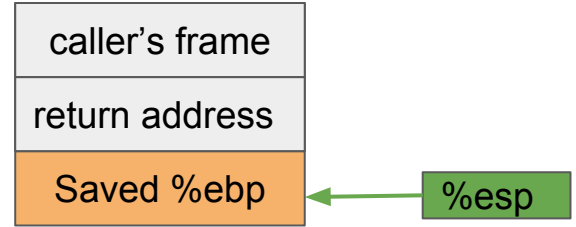
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    pushl    %ebp
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    subl     $32, %esp
    movl     $0, -4(%ebp)
    jmp     .L2
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    movl     -4(%ebp), %eax
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    addl     $1, -4(%ebp)
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.L2:

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    cmpl     $1, -4(%ebp)
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    leave
    ret
```



%eax



func:

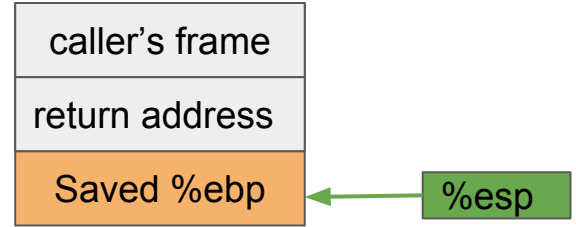
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    pushl    %ebp
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```

.L2:

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    cmpl    $1, -4(%ebp)
    jle     .L3
    leave
    ret
```



%eax



func:

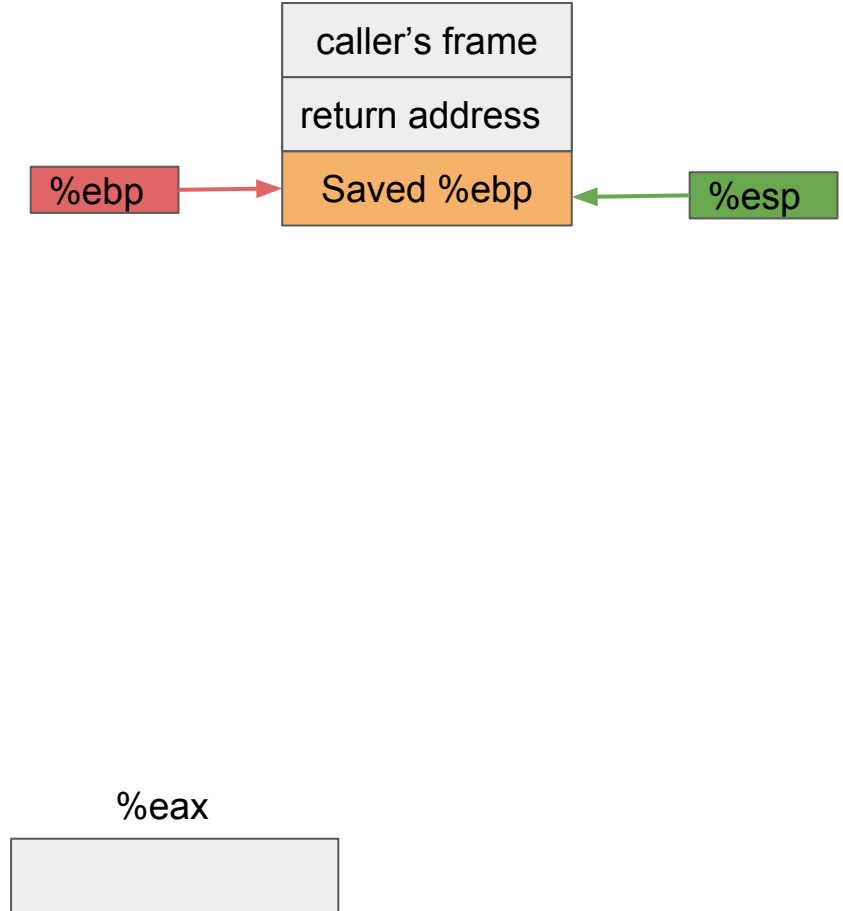
```
    pushl    %ebp
    movl     %esp, %ebp
    subl    $32, %esp
    movl    $0, -4(%ebp)
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.L3:

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    addl    $1, -4(%ebp)
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    cmpl    $1, -4(%ebp)
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    ret
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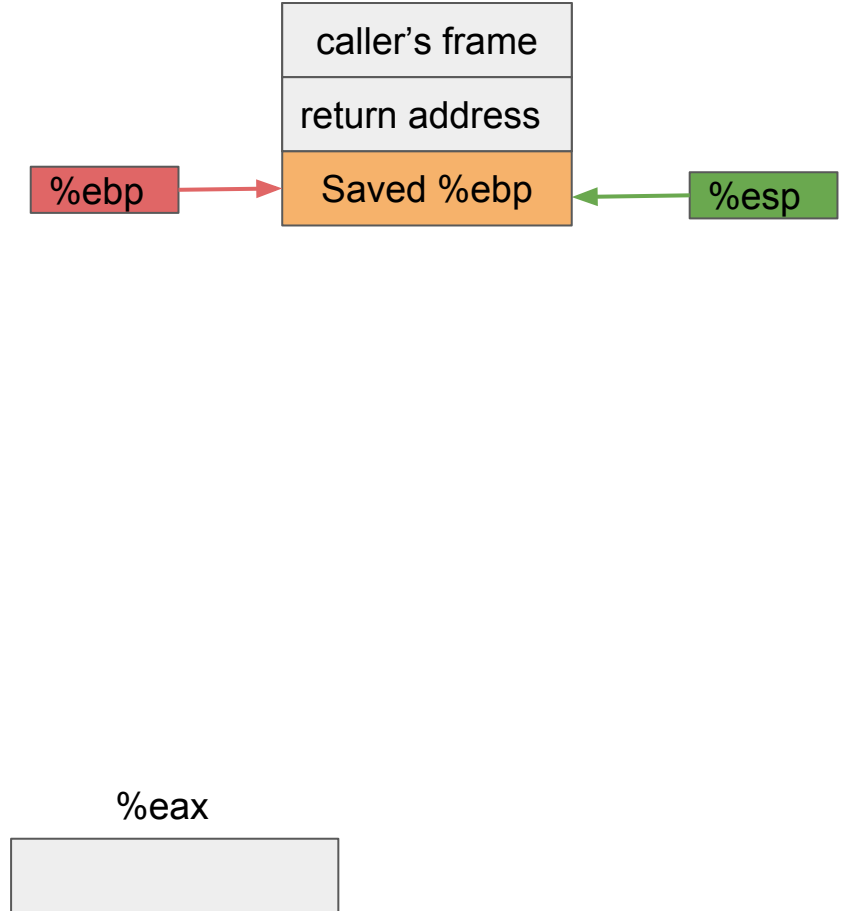
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    pushl    %ebp
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    subl    $32, %esp
    movl    $0, -4(%ebp)
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    cmpl    $1, -4(%ebp)
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func:

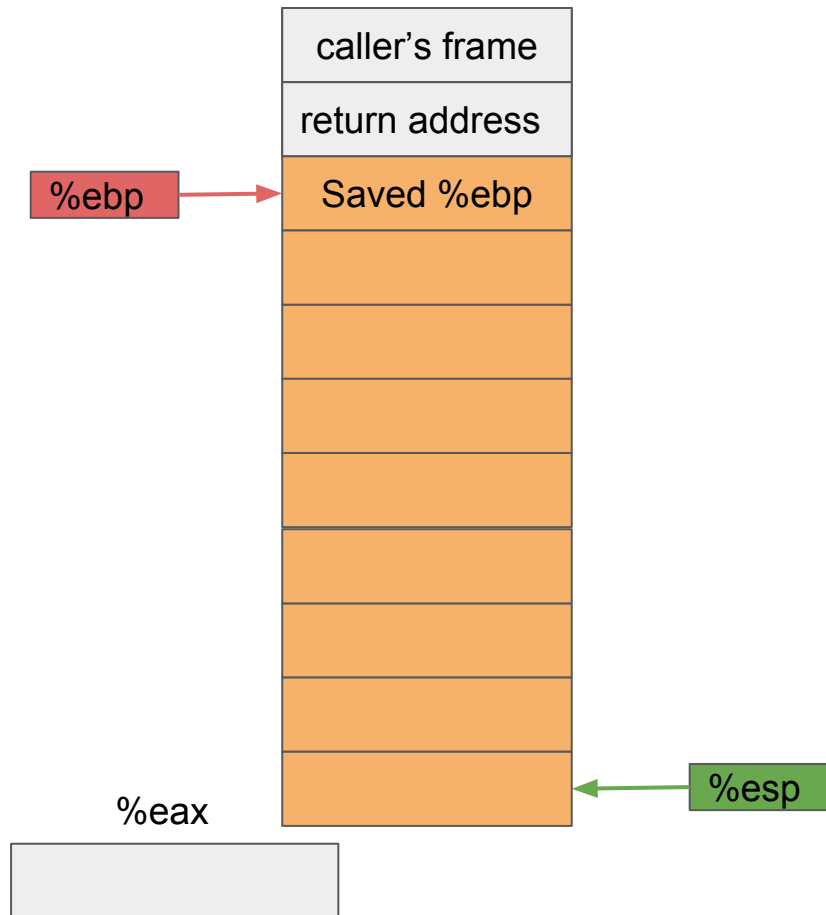
```
    pushl    %ebp
    movl    %esp, %ebp
    subl    $32, %esp
    movl    $0, -4(%ebp)
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    cmpl    $1, -4(%ebp)
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func:

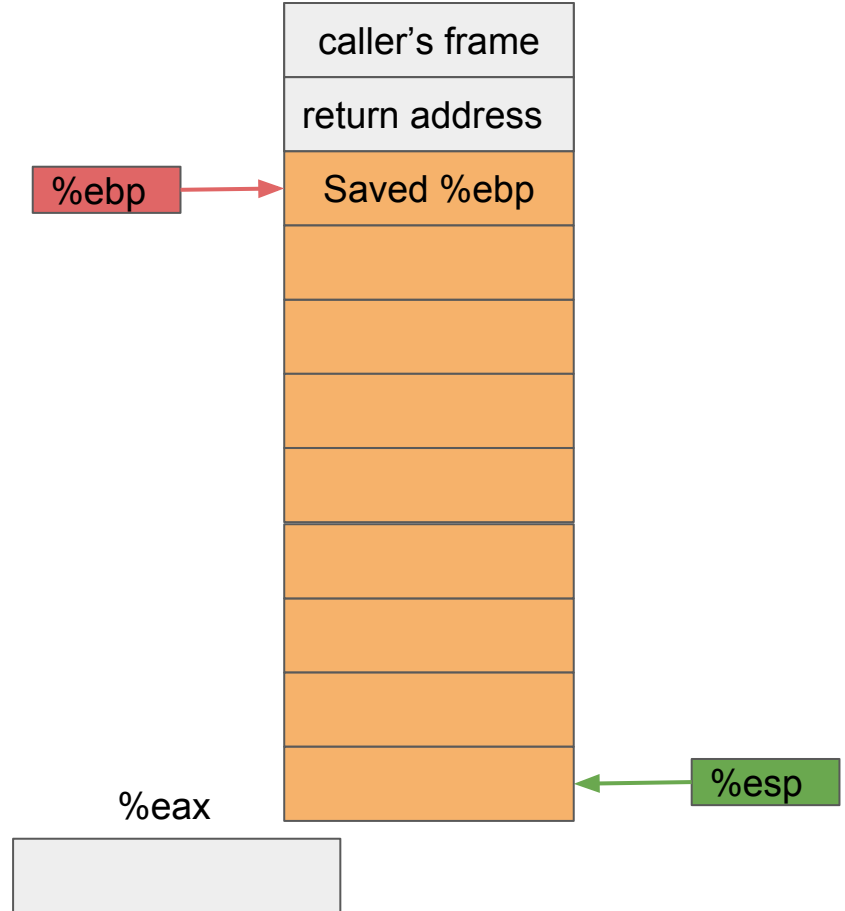
```
pushl    %ebp
movl     %esp, %ebp
subl     $32, %esp
movl    $0, -4(%ebp)
jmp     .L2
```

.L3:

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movl     -4(%ebp), %eax
movl     $0, -20(%ebp,%eax,8)
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.L2:

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cmpl     $1, -4(%ebp)
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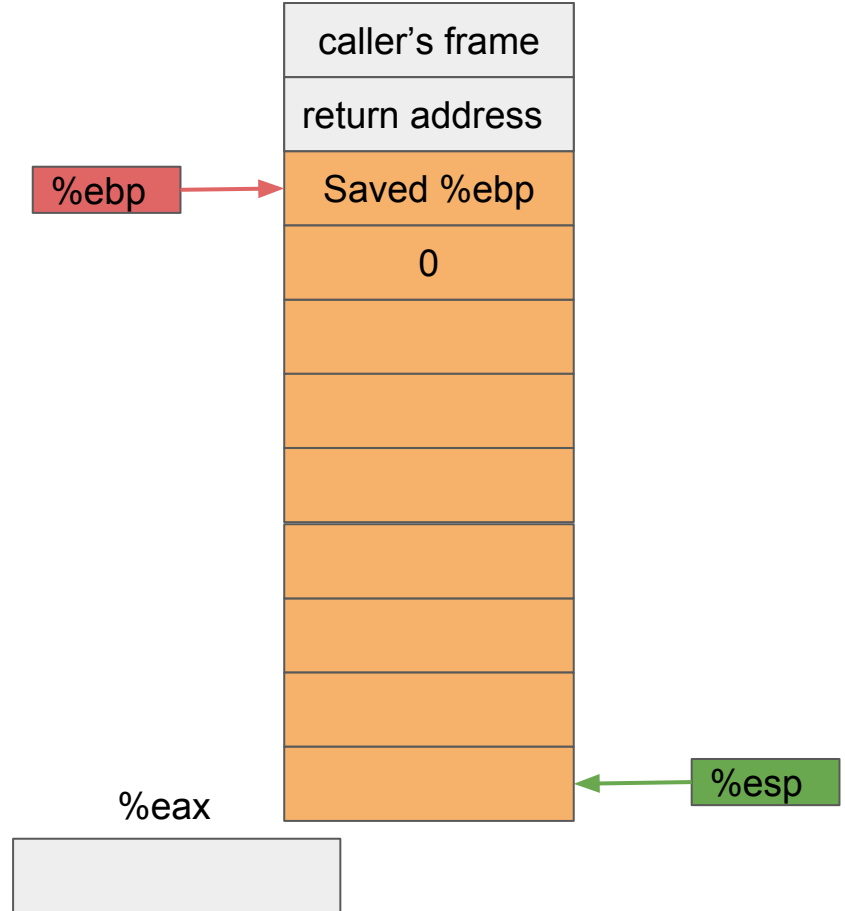
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    pushl    %ebp
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.L2:

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    cmpl    $1, -4(%ebp)
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func:

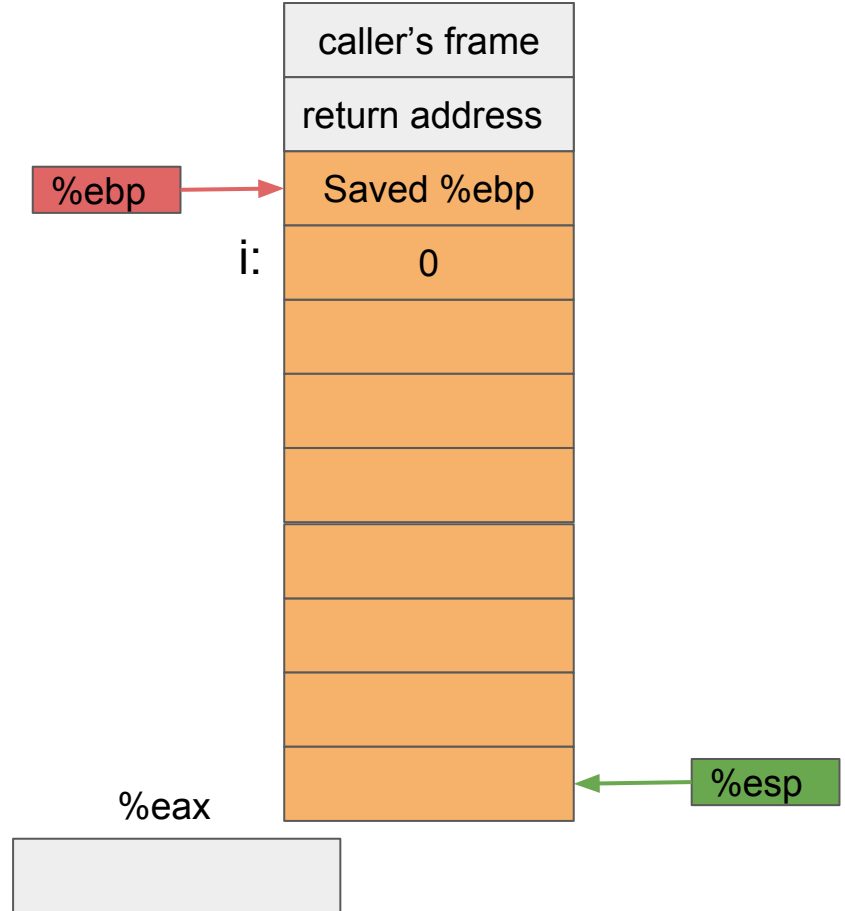
```
pushl    %ebp
movl     %esp, %ebp
subl     $32, %esp
movl    $0, -4(%ebp)
jmp     .L2
```

.L3:

```
movl     -4(%ebp), %eax
movl     $0, -20(%ebp,%eax,8)
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movl     $1, -16(%ebp,%eax,8)
addl     $1, -4(%ebp)
```

.L2:

```
cmpl     $1, -4(%ebp)
jle     .L3
leave
ret
```



func:

```
pushl %ebp
movl %esp, %ebp
subl $32, %esp
movl $0, -4(%ebp)
```

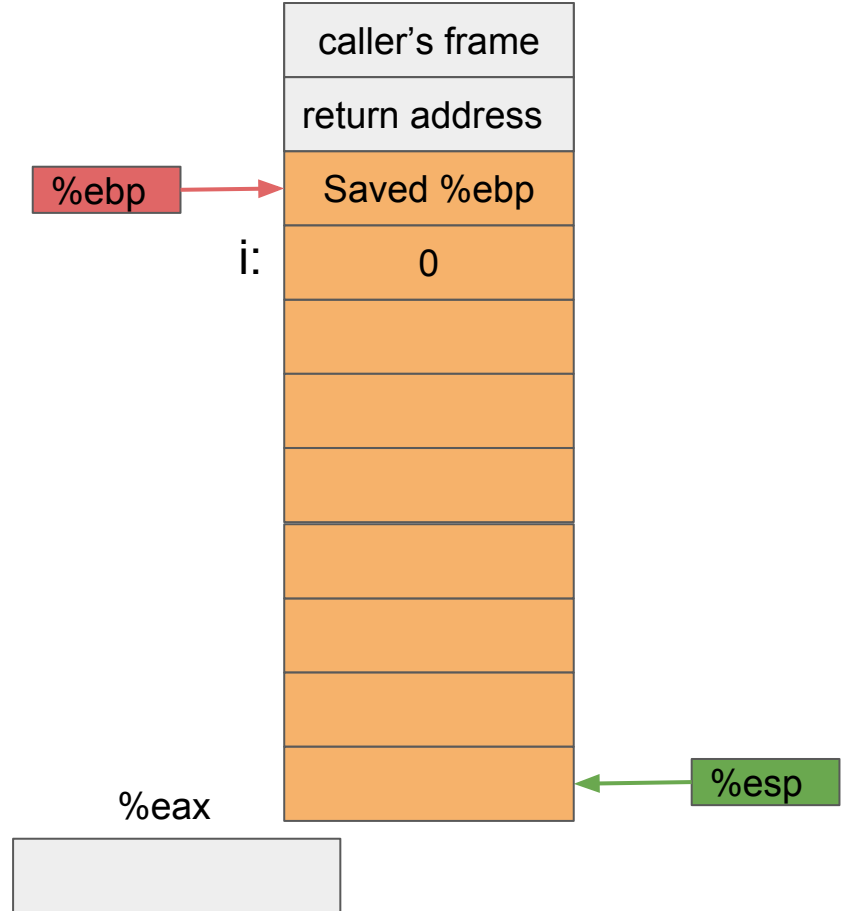
jmp .L2

.L3:

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movl -4(%ebp), %eax
movl $0, -20(%ebp,%eax,8)
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.L2:

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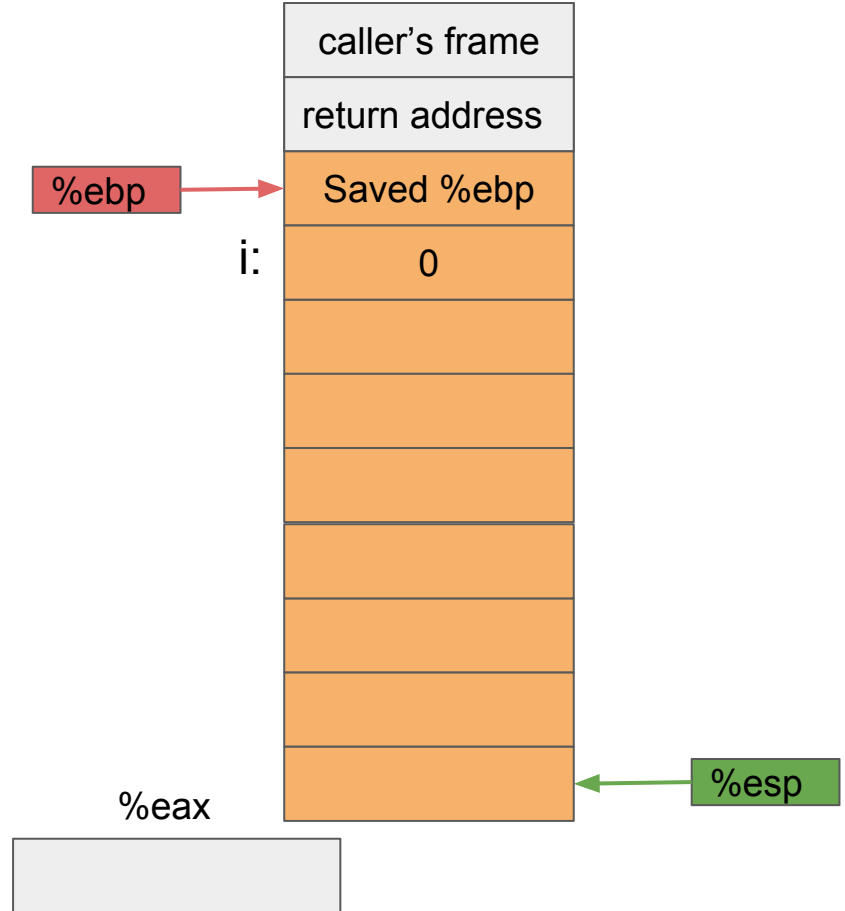
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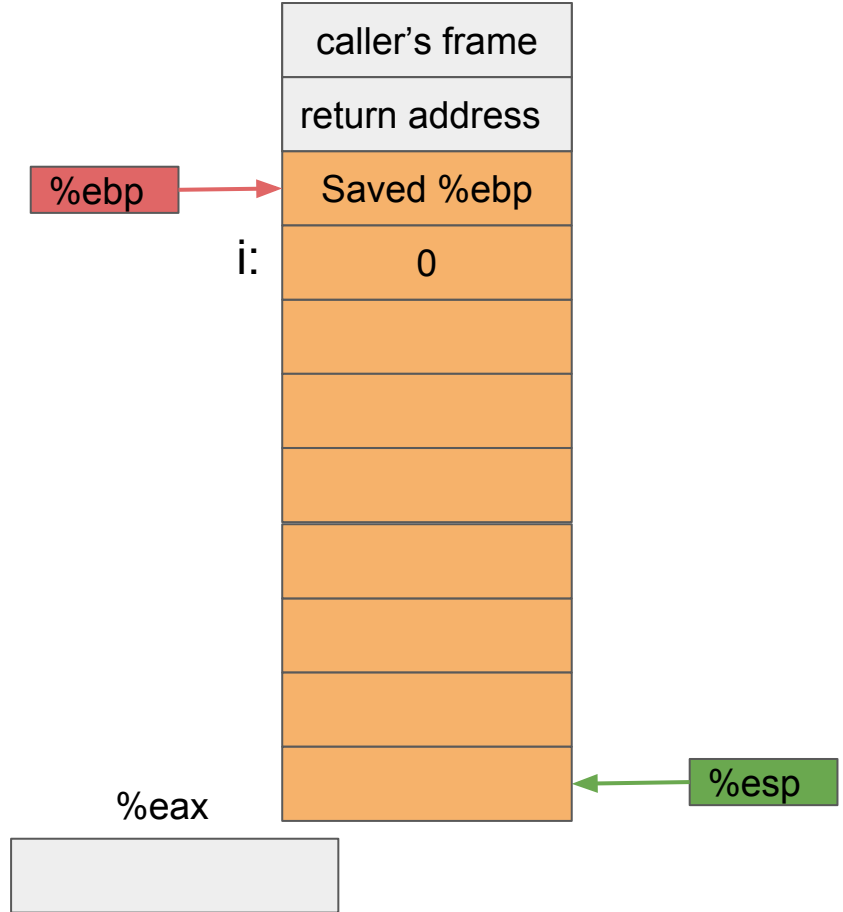
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    addl    $1, -4(%ebp)
```

.L2:

```
    cmpl    $1, -4(%ebp)
    jle .L3
    leave
    ret
```

Jump if $0 \leq 1$



func:

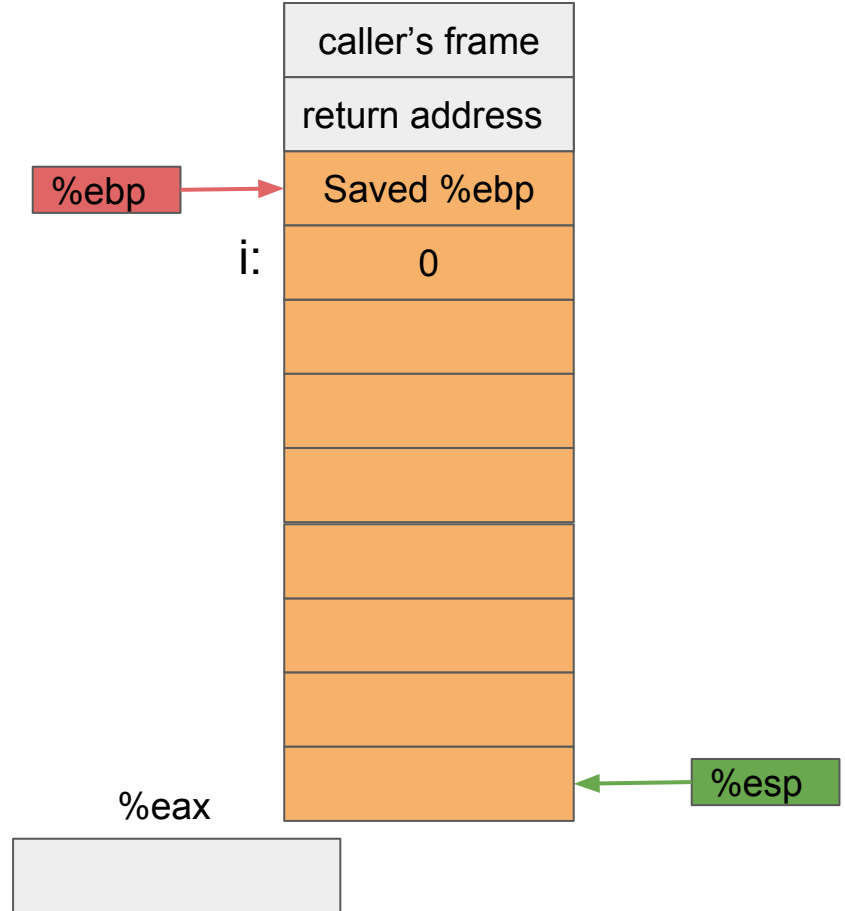
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.L2:

```
    cmpl    $1, -4(%ebp)
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    ret
```



func:

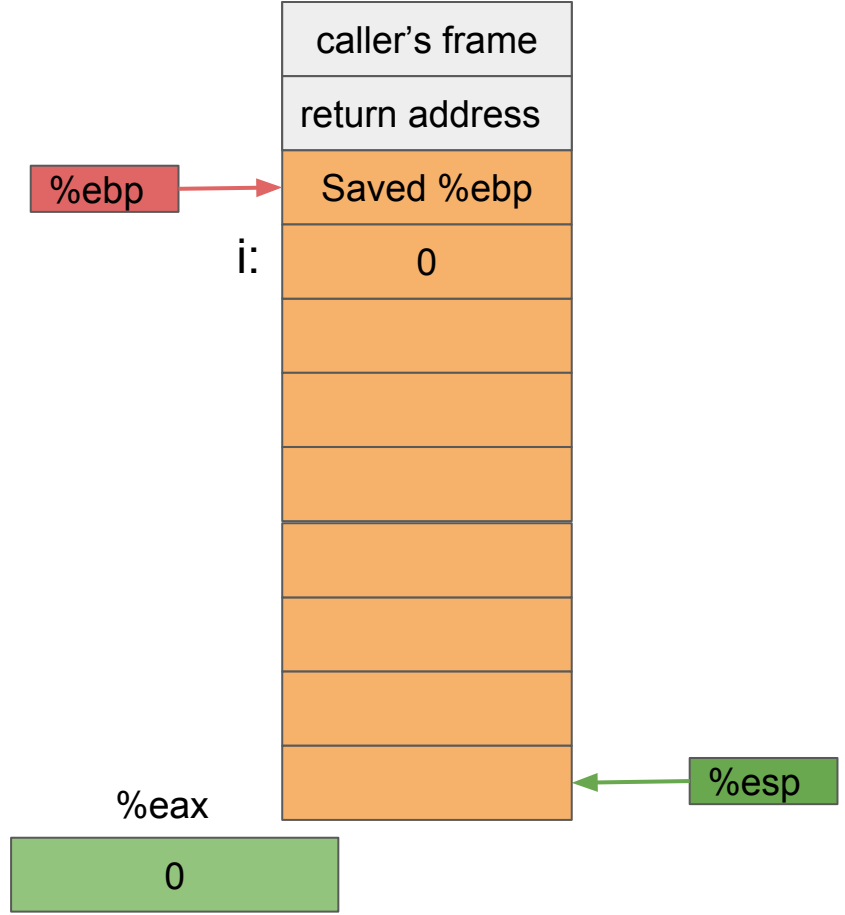
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addl $1, -4(%ebp)
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.L2:

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cmpl $1, -4(%ebp)
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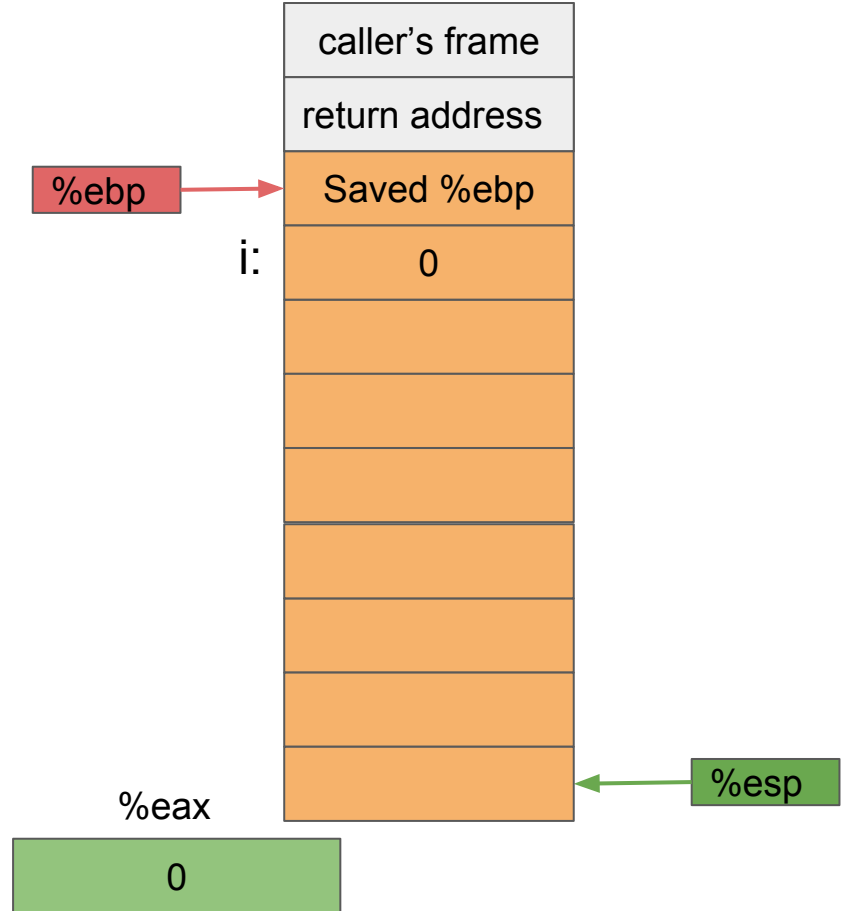
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movl $0, -4(%ebp)
jmp .L2
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cmpl $1, -4(%ebp)
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func:

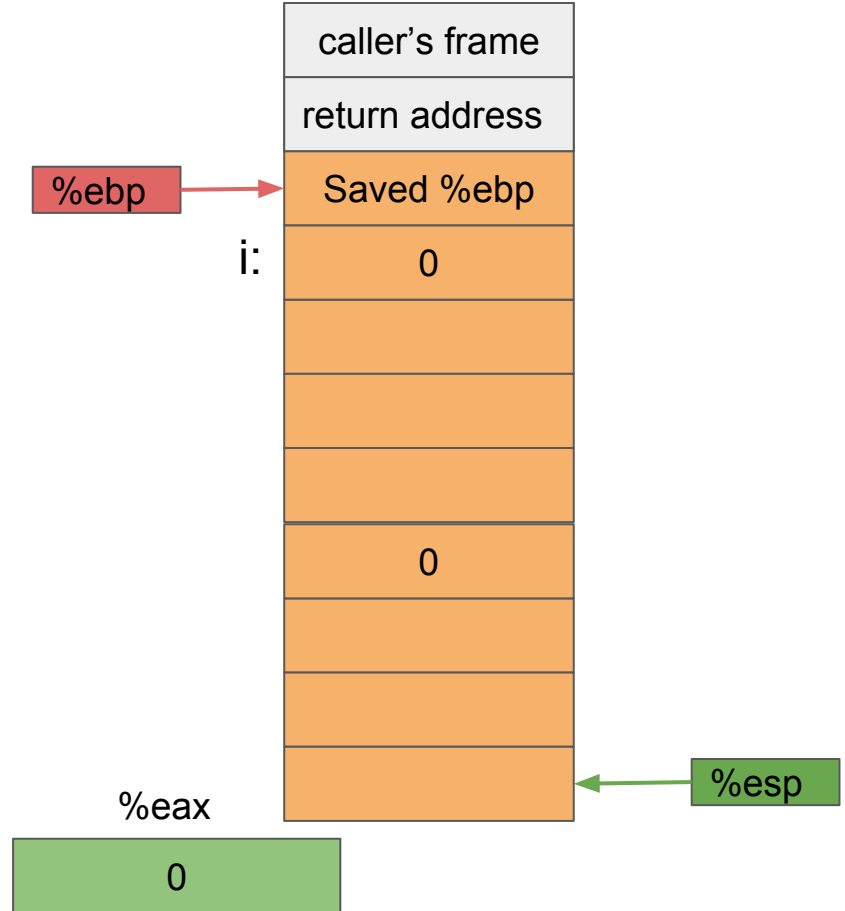
```
pushl %ebp
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subl $32, %esp
movl $0, -4(%ebp)
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movl -4(%ebp), %eax
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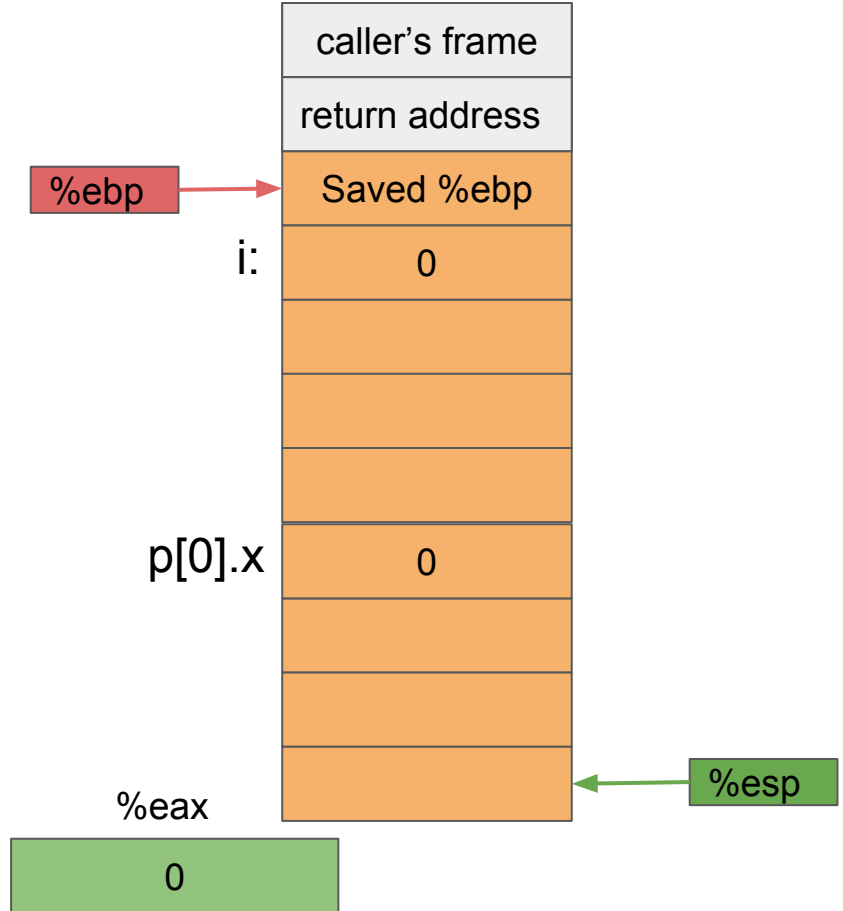
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pushl %ebp
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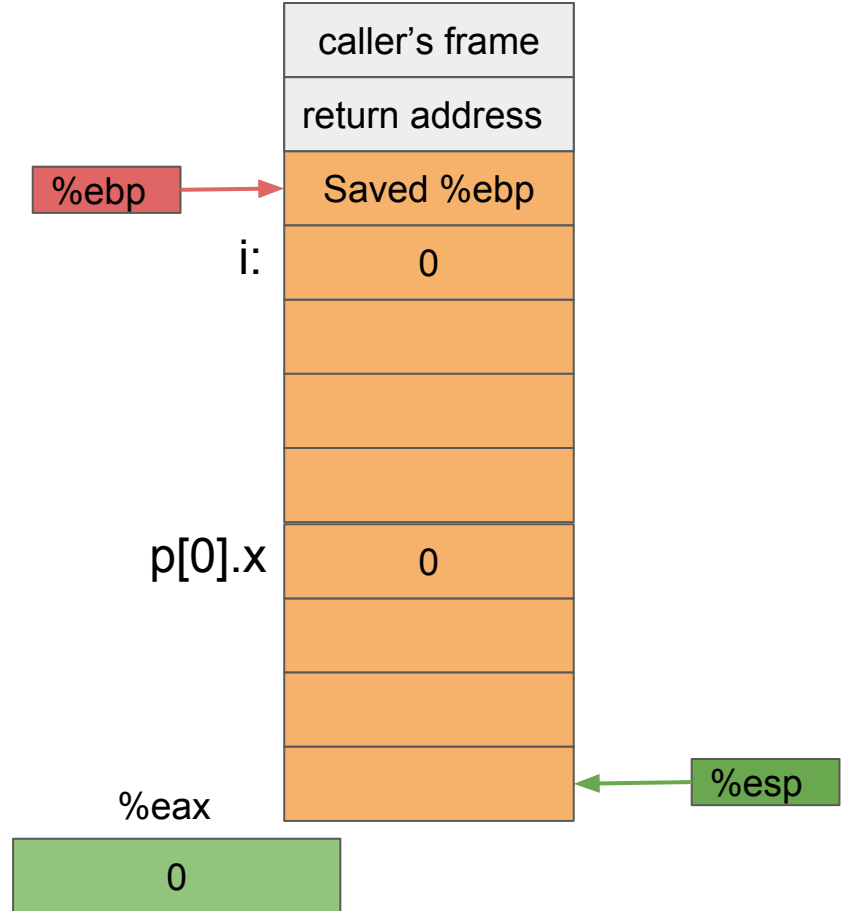
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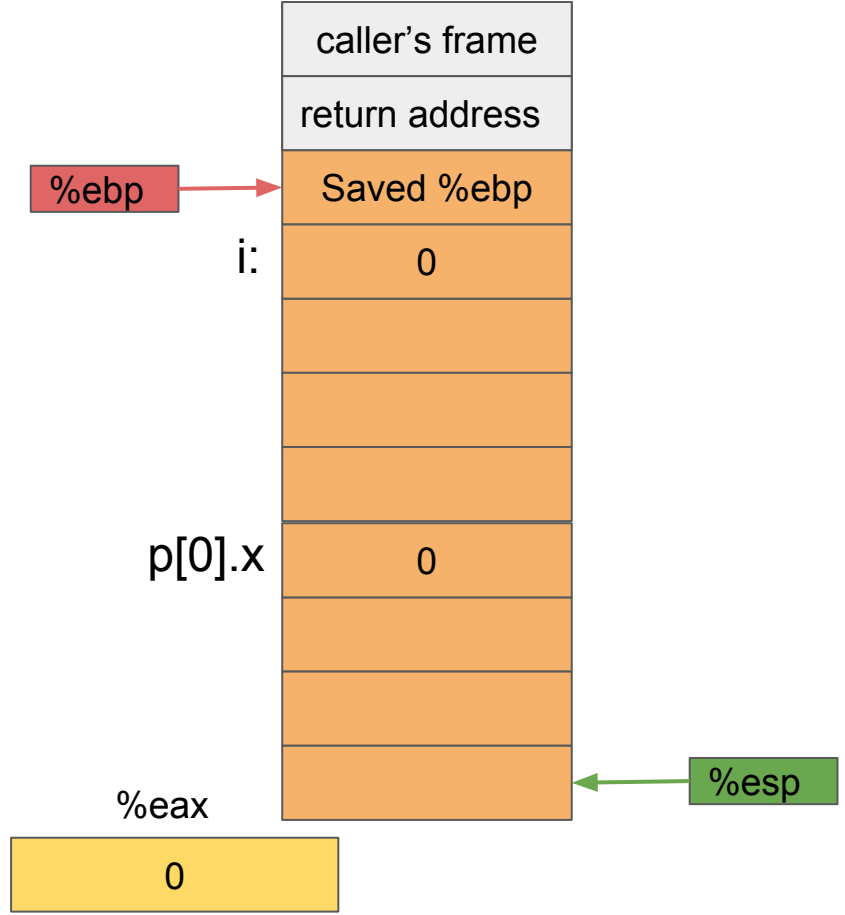
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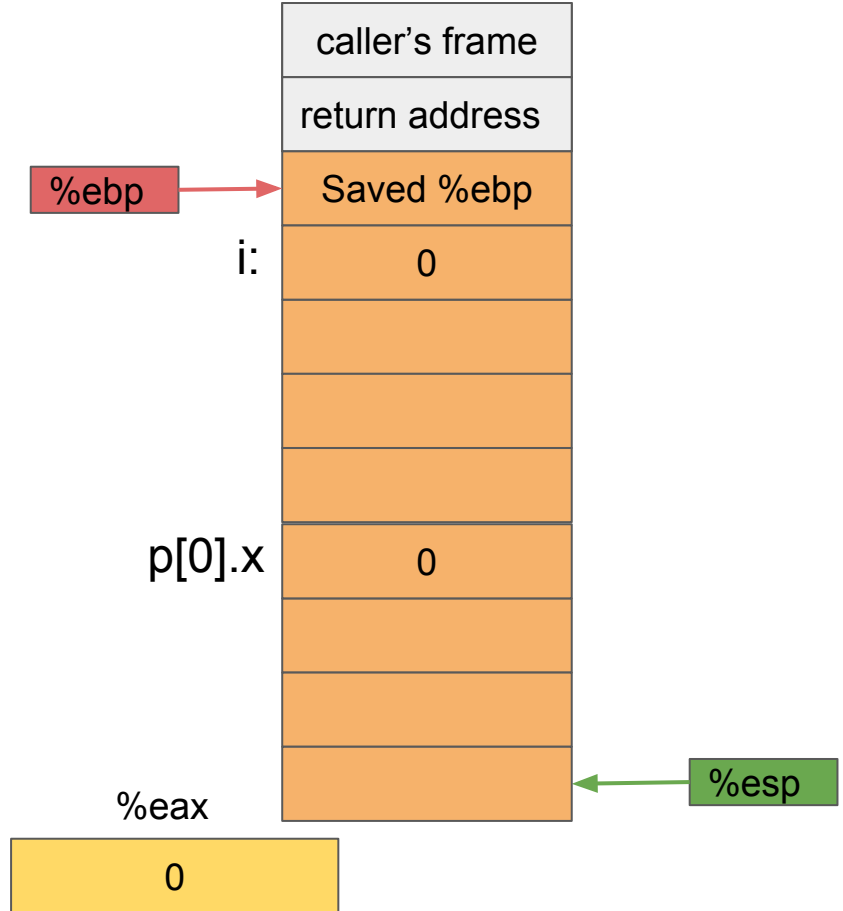
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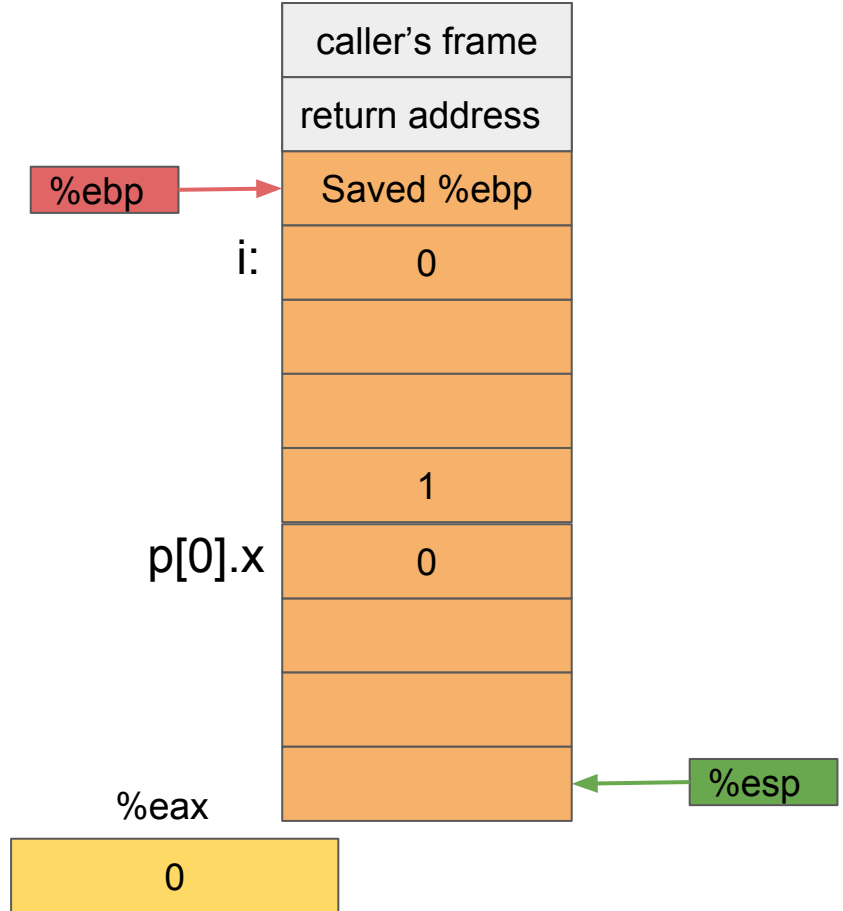
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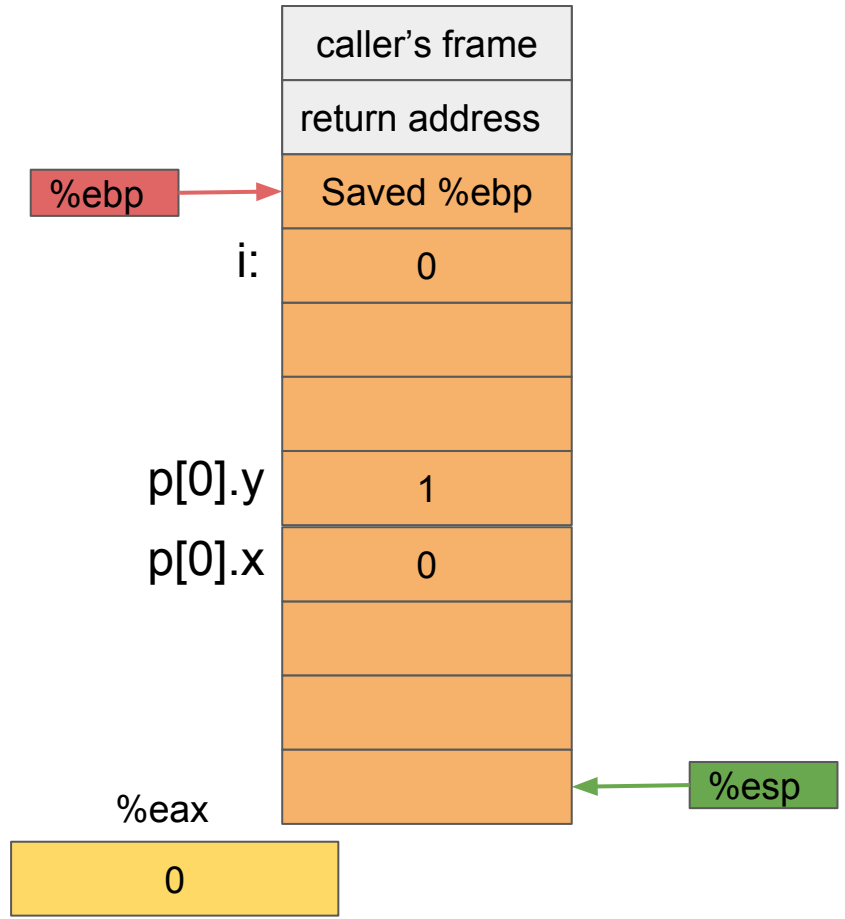
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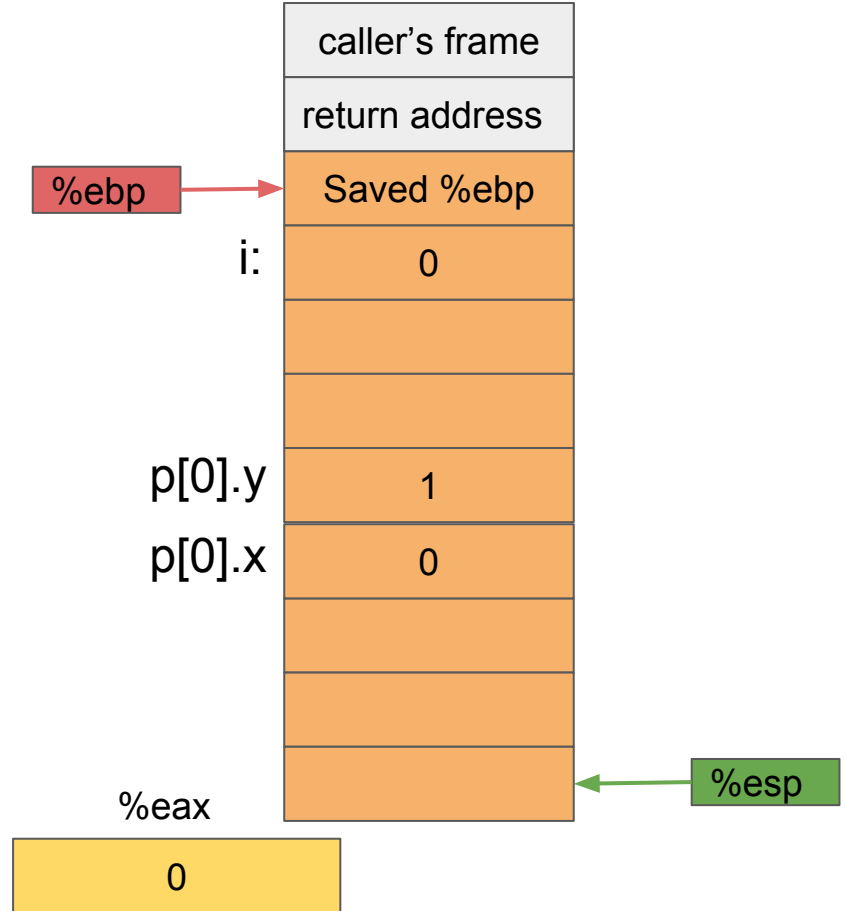
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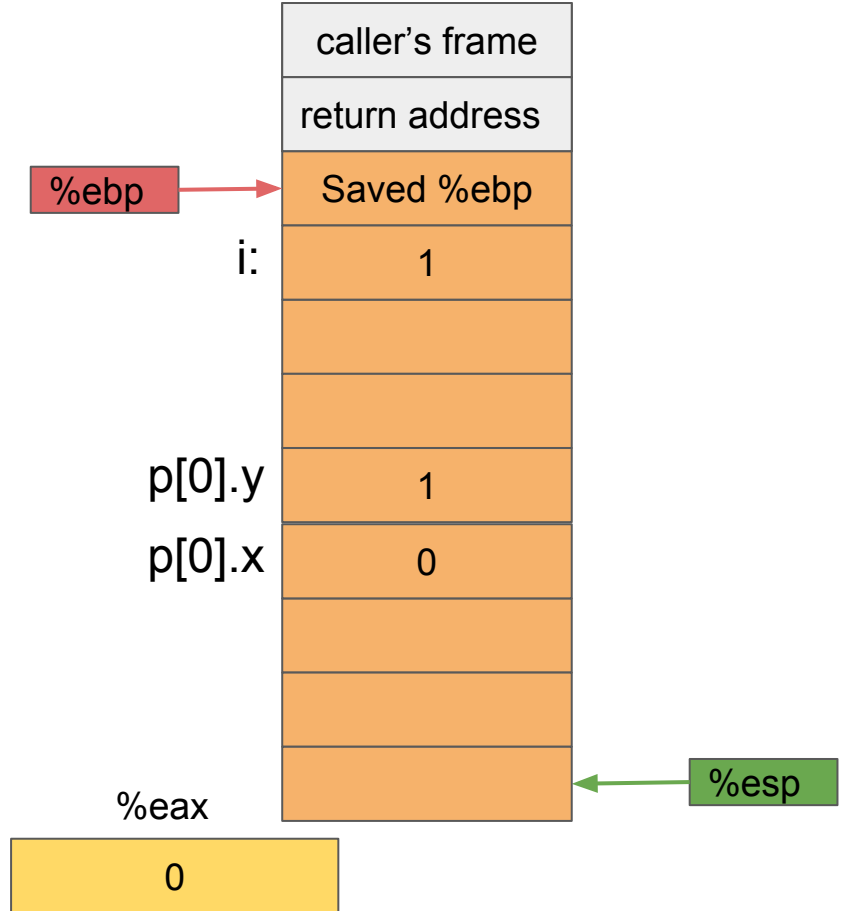
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pushl %ebp
movl %esp, %ebp
subl $32, %esp
movl $0, -4(%ebp)
jmp .L2
```

.L3:

```
movl -4(%ebp), %eax
movl $0, -20(%ebp,%eax,8)
movl -4(%ebp), %eax
movl $1, -16(%ebp,%eax,8)
addl $1, -4(%ebp)
```

.L2:

```
cmpl $1, -4(%ebp)
jle .L3
leave
ret
```



func:

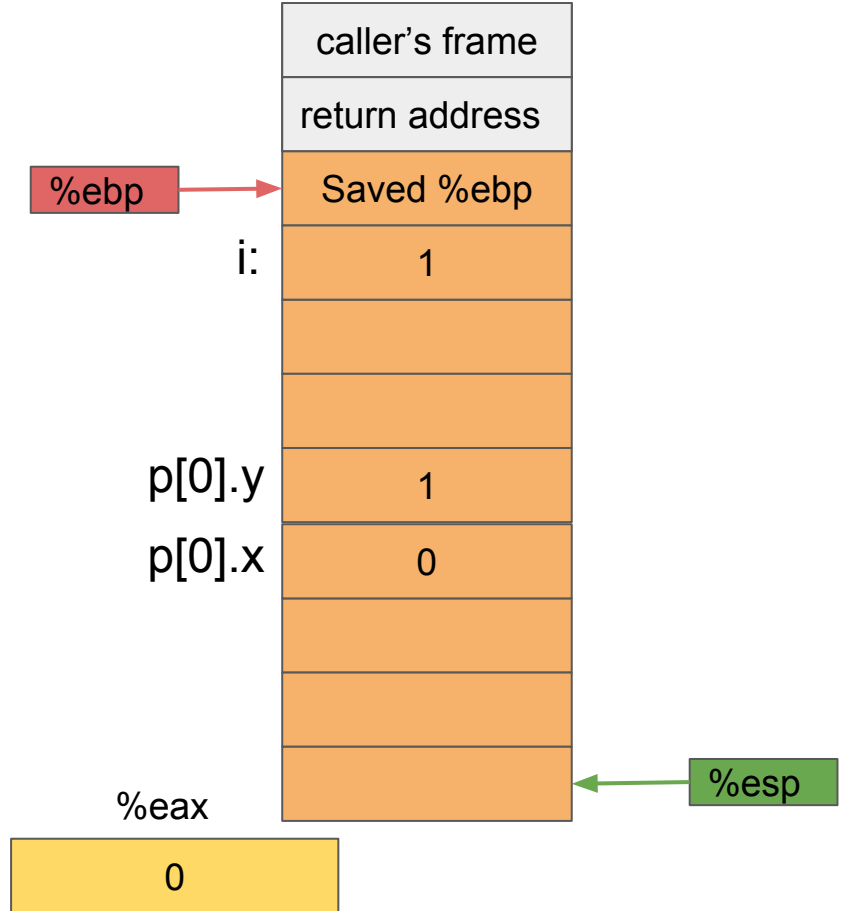
```
    pushl    %ebp
    movl    %esp, %ebp
    subl    $32, %esp
    movl    $0, -4(%ebp)
    jmp     .L2
```

.L3:

```
    movl    -4(%ebp), %eax
    movl    $0, -20(%ebp,%eax,8)
    movl    -4(%ebp), %eax
    movl    $1, -16(%ebp,%eax,8)
    addl    $1, -4(%ebp)
```

.L2:

```
    cmpl    $1, -4(%ebp)
    jle    .L3
    leave
    ret
```



func:

```
    pushl    %ebp
    movl    %esp, %ebp
    subl    $32, %esp
    movl    $0, -4(%ebp)
    jmp     .L2
```

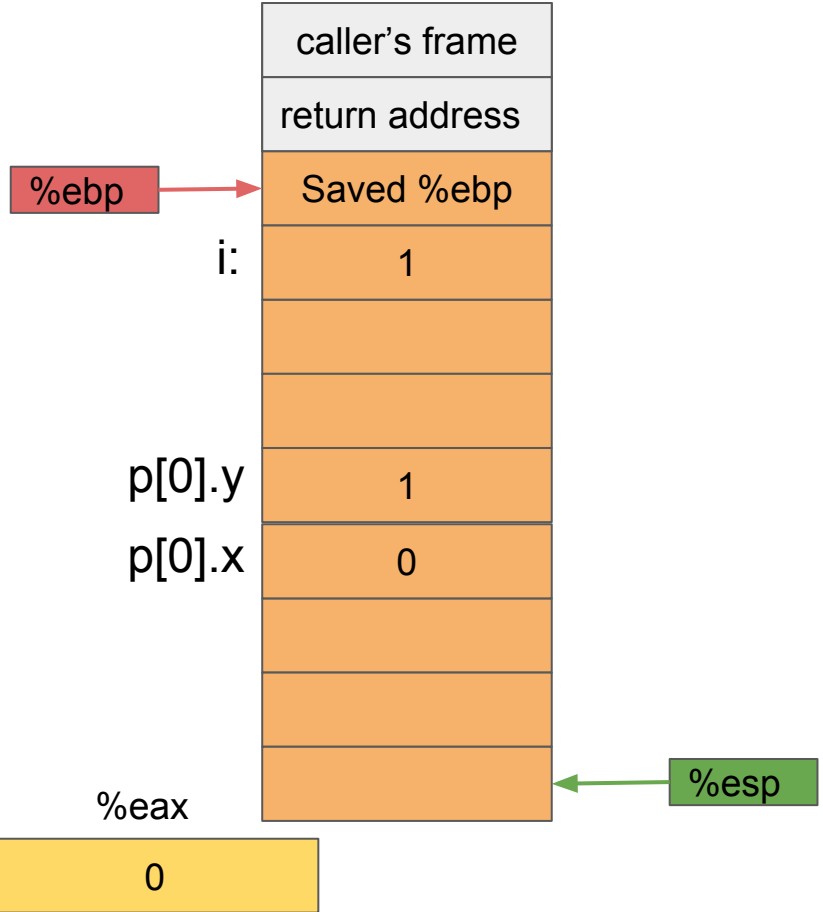
.L3:

```
    movl    -4(%ebp), %eax
    movl    $0, -20(%ebp,%eax,8)
    movl    -4(%ebp), %eax
    movl    $1, -16(%ebp,%eax,8)
    addl    $1, -4(%ebp)
```

.L2:

```
    cmpl    $1, -4(%ebp)
    jle     .L3
    leave
    ret
```

Jump if $1 \leq 1$



func:

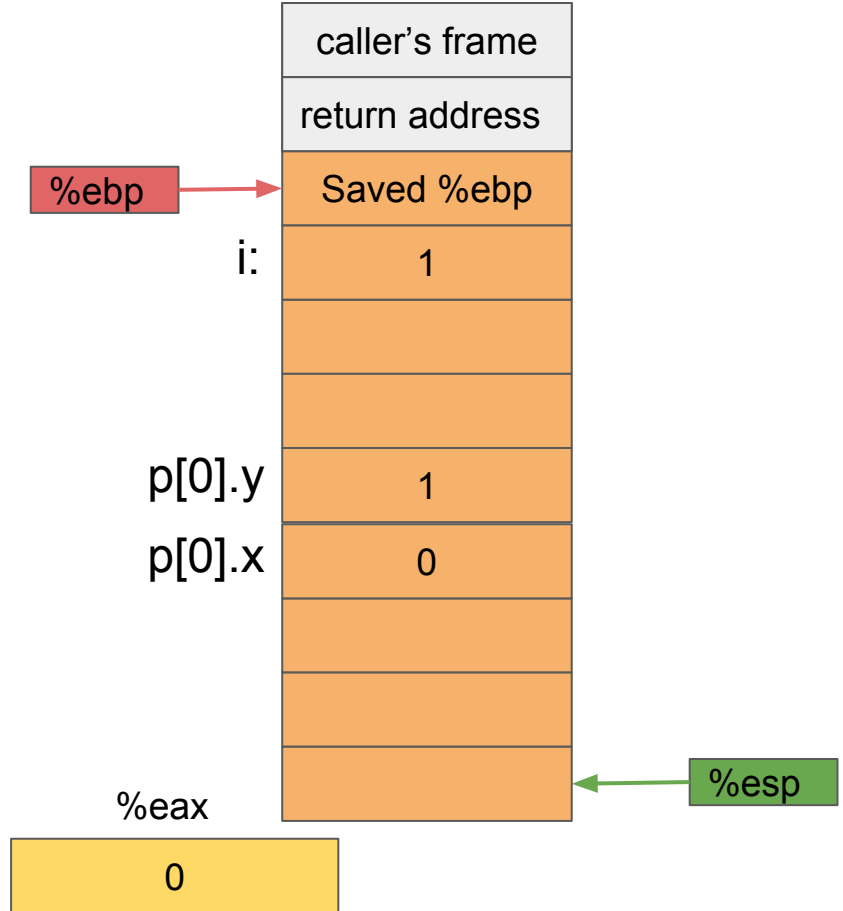
```
    pushl    %ebp
    movl    %esp, %ebp
    subl    $32, %esp
    movl    $0, -4(%ebp)
    jmp     .L2
```

.L3:

```
    movl    -4(%ebp), %eax
    movl    $0, -20(%ebp,%eax,8)
    movl    -4(%ebp), %eax
    movl    $1, -16(%ebp,%eax,8)
    addl    $1, -4(%ebp)
```

.L2:

```
    cmpl    $1, -4(%ebp)
    jle     .L3
    leave
    ret
```



func:

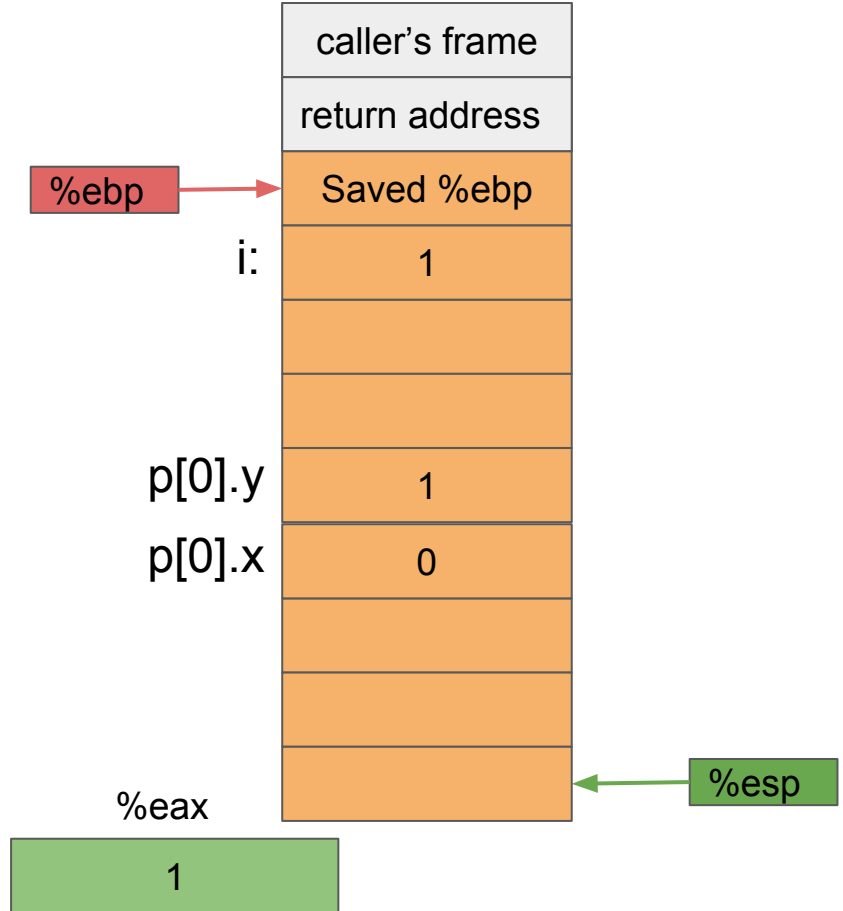
```
pushl    %ebp
movl     %esp, %ebp
subl     $32, %esp
movl     $0, -4(%ebp)
jmp      .L2
```

.L3:

```
movl    -4(%ebp), %eax
movl     $0, -20(%ebp,%eax,8)
movl     -4(%ebp), %eax
movl     $1, -16(%ebp,%eax,8)
addl     $1, -4(%ebp)
```

.L2:

```
cmpl     $1, -4(%ebp)
jle      .L3
leave
ret
```



func:

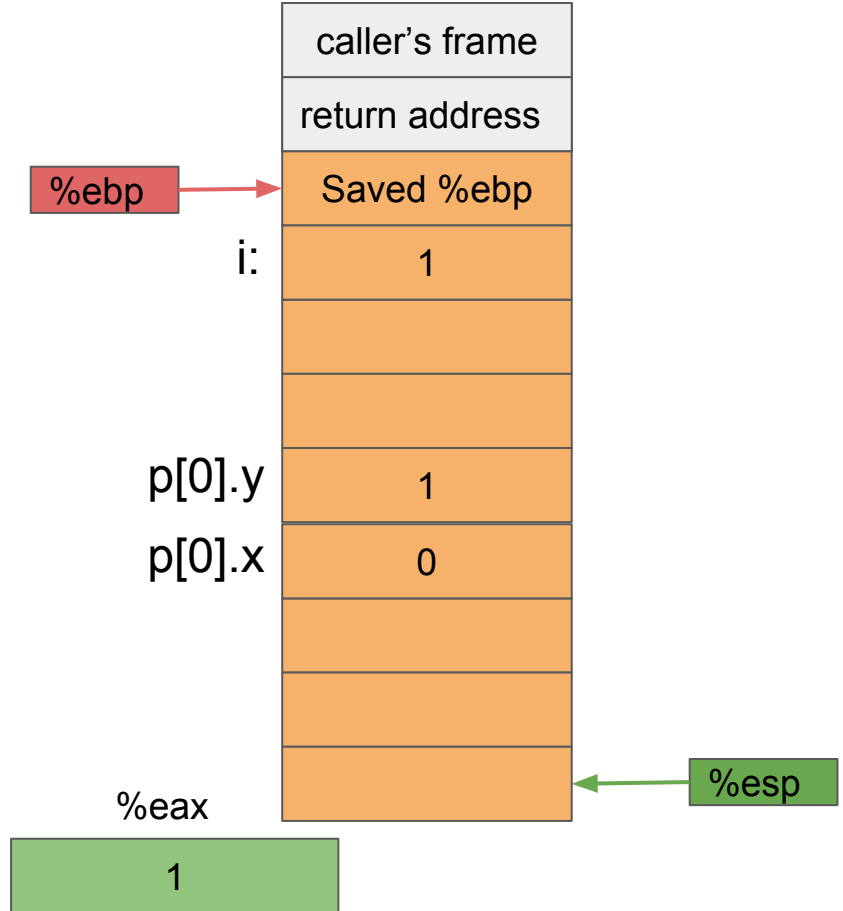
```
pushl    %ebp
movl     %esp, %ebp
subl     $32, %esp
movl     $0, -4(%ebp)
jmp      .L2
```

.L3:

```
movl     -4(%ebp), %eax
movl     $0, -20(%ebp,%eax,8)
movl     -4(%ebp), %eax
movl     $1, -16(%ebp,%eax,8)
addl     $1, -4(%ebp)
```

.L2:

```
cmpl     $1, -4(%ebp)
jle      .L3
leave
ret
```



func:

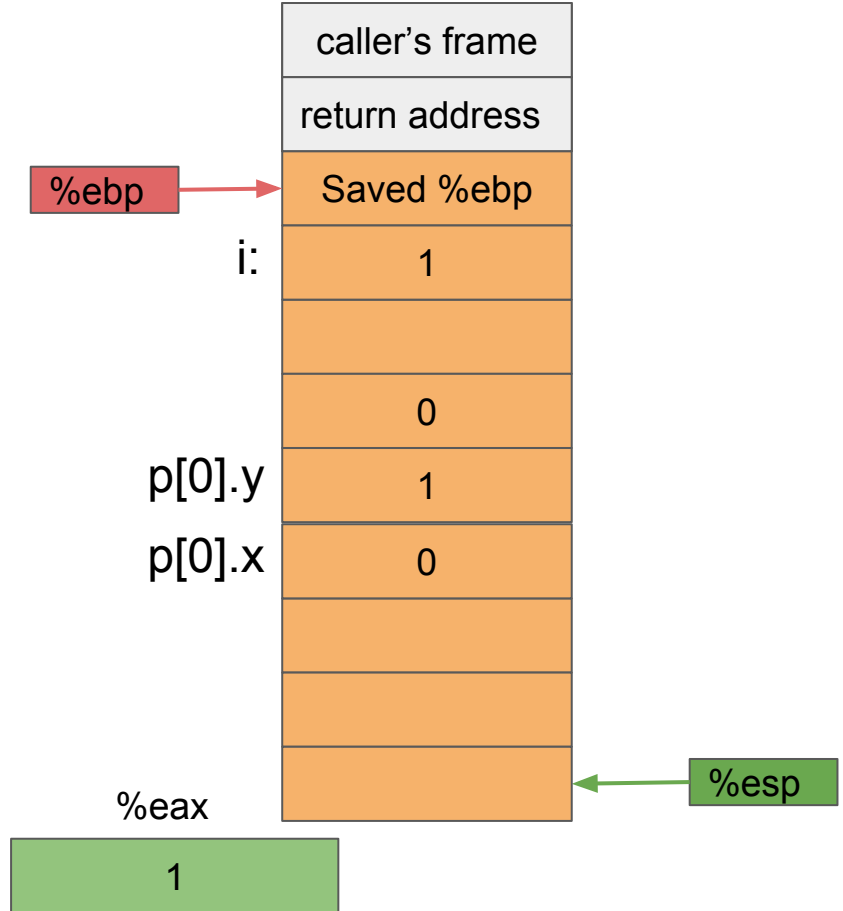
```
pushl   %ebp
movl    %esp, %ebp
subl    $32, %esp
movl    $0, -4(%ebp)
jmp     .L2
```

.L3:

```
movl    -4(%ebp), %eax
movl    $0, -20(%ebp,%eax,8)
movl    -4(%ebp), %eax
movl    $1, -16(%ebp,%eax,8)
addl    $1, -4(%ebp)
```

.L2:

```
cmpl    $1, -4(%ebp)
jle     .L3
leave
ret
```



func:

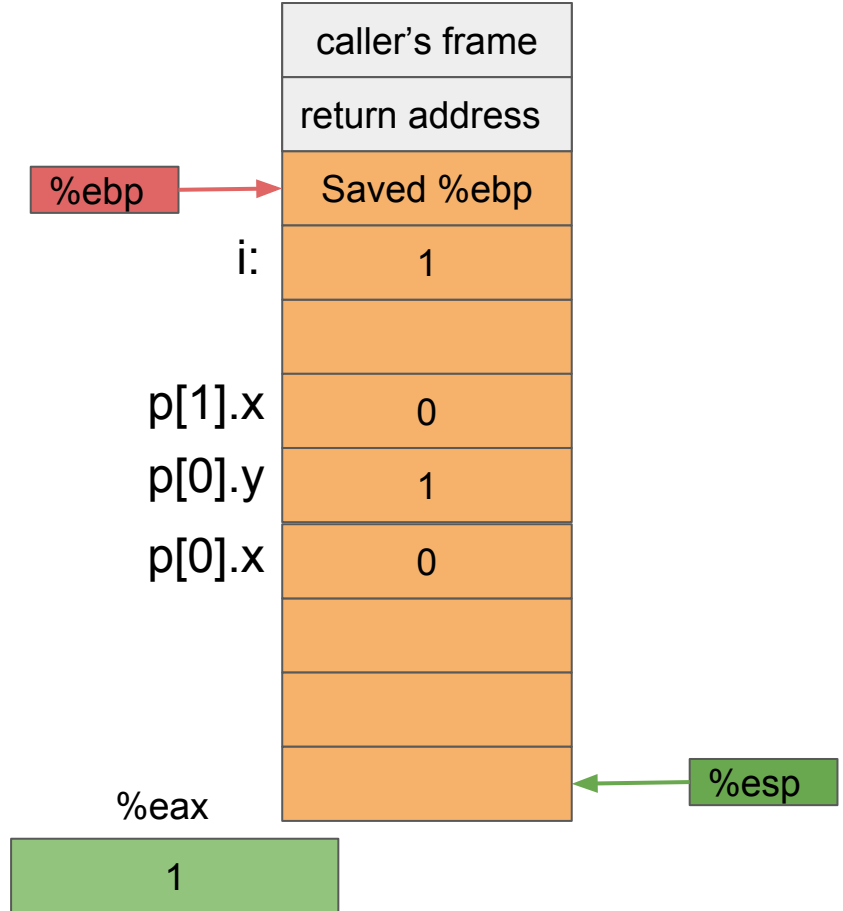
```
pushl   %ebp
movl    %esp, %ebp
subl    $32, %esp
movl    $0, -4(%ebp)
jmp     .L2
```

.L3:

```
movl    -4(%ebp), %eax
movl    $0, -20(%ebp,%eax,8)
movl    -4(%ebp), %eax
movl    $1, -16(%ebp,%eax,8)
addl    $1, -4(%ebp)
```

.L2:

```
cmpl    $1, -4(%ebp)
jle     .L3
leave
ret
```



func:

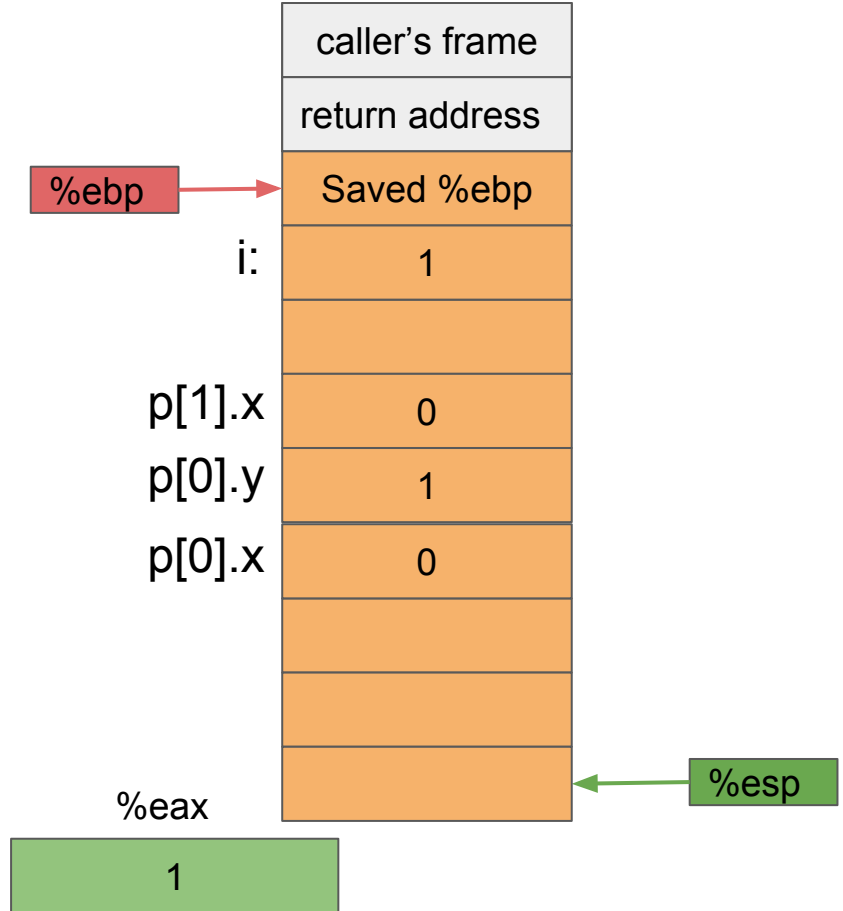
```
    pushl    %ebp
    movl    %esp, %ebp
    subl    $32, %esp
    movl    $0, -4(%ebp)
    jmp     .L2
```

.L3:

```
    movl    -4(%ebp), %eax
    movl    $0, -20(%ebp,%eax,8)
    movl    -4(%ebp), %eax
    movl    $1, -16(%ebp,%eax,8)
    addl    $1, -4(%ebp)
```

.L2:

```
    cmpl    $1, -4(%ebp)
    jle     .L3
    leave
    ret
```



func:

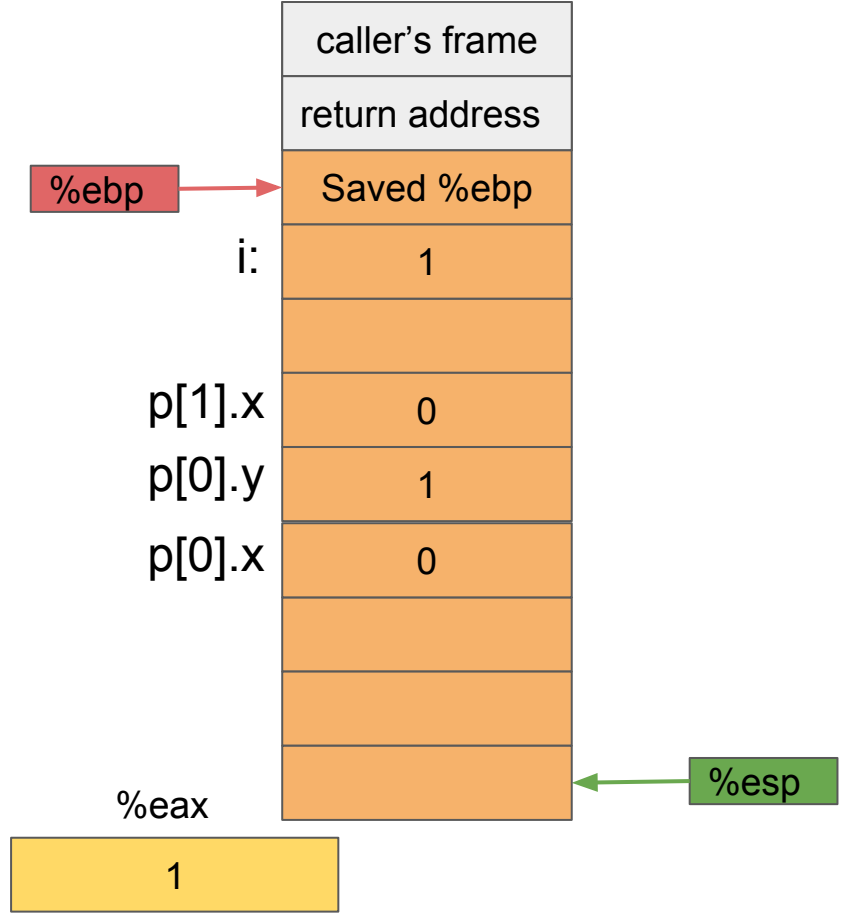
```
    pushl    %ebp
    movl    %esp, %ebp
    subl    $32, %esp
    movl    $0, -4(%ebp)
    jmp     .L2
```

.L3:

```
    movl    -4(%ebp), %eax
    movl    $0, -20(%ebp,%eax,8)
    movl    -4(%ebp), %eax
    movl    $1, -16(%ebp,%eax,8)
    addl    $1, -4(%ebp)
```

.L2:

```
    cmpl    $1, -4(%ebp)
    jle     .L3
    leave
    ret
```



func:

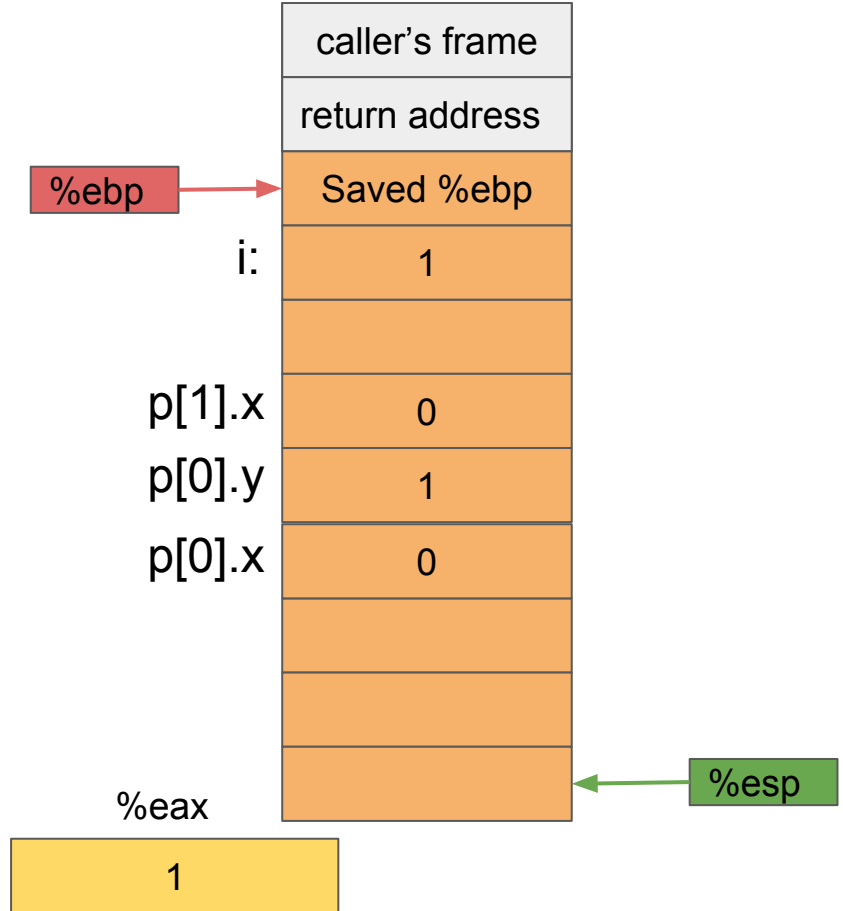
```
    pushl    %ebp
    movl    %esp, %ebp
    subl    $32, %esp
    movl    $0, -4(%ebp)
    jmp     .L2
```

.L3:

```
    movl    -4(%ebp), %eax
    movl    $0, -20(%ebp,%eax,8)
    movl    -4(%ebp), %eax
    movl    $1, -16(%ebp,%eax,8)
    addl    $1, -4(%ebp)
```

.L2:

```
    cmpl    $1, -4(%ebp)
    jle     .L3
    leave
    ret
```



func:

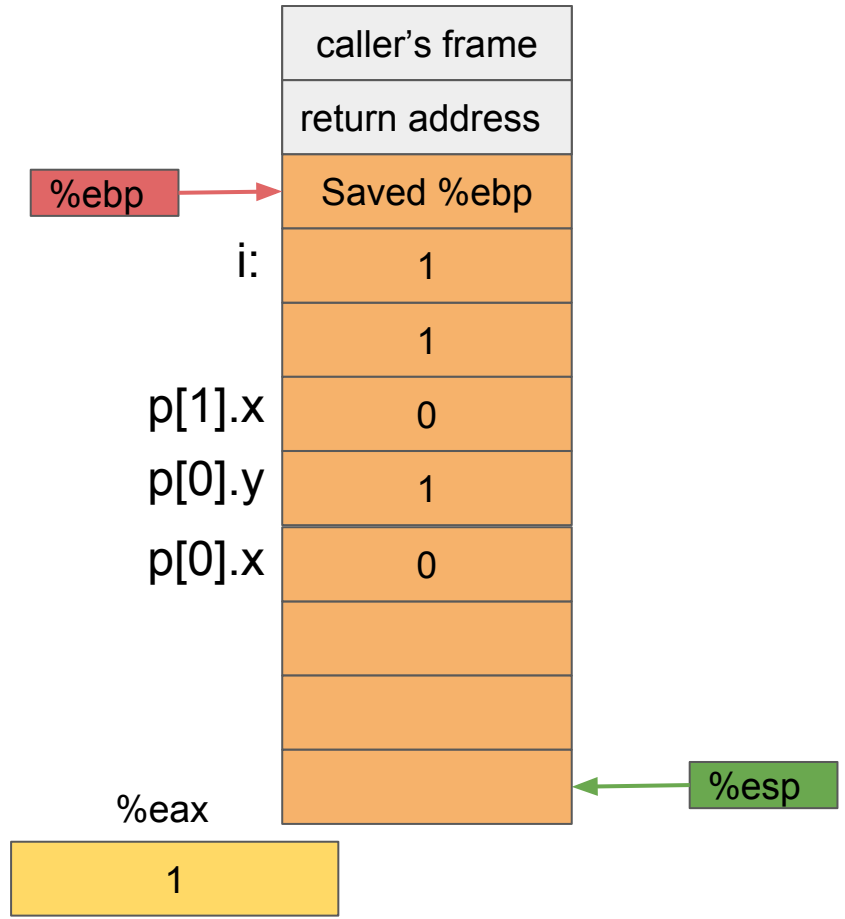
```
pushl %ebp
movl %esp, %ebp
subl $32, %esp
movl $0, -4(%ebp)
jmp .L2
```

.L3:

```
movl -4(%ebp), %eax
movl $0, -20(%ebp,%eax,8)
movl -4(%ebp), %eax
movl $1, -16(%ebp,%eax,8)
addl $1, -4(%ebp)
```

.L2:

```
cmpl $1, -4(%ebp)
jle .L3
leave
ret
```



func:

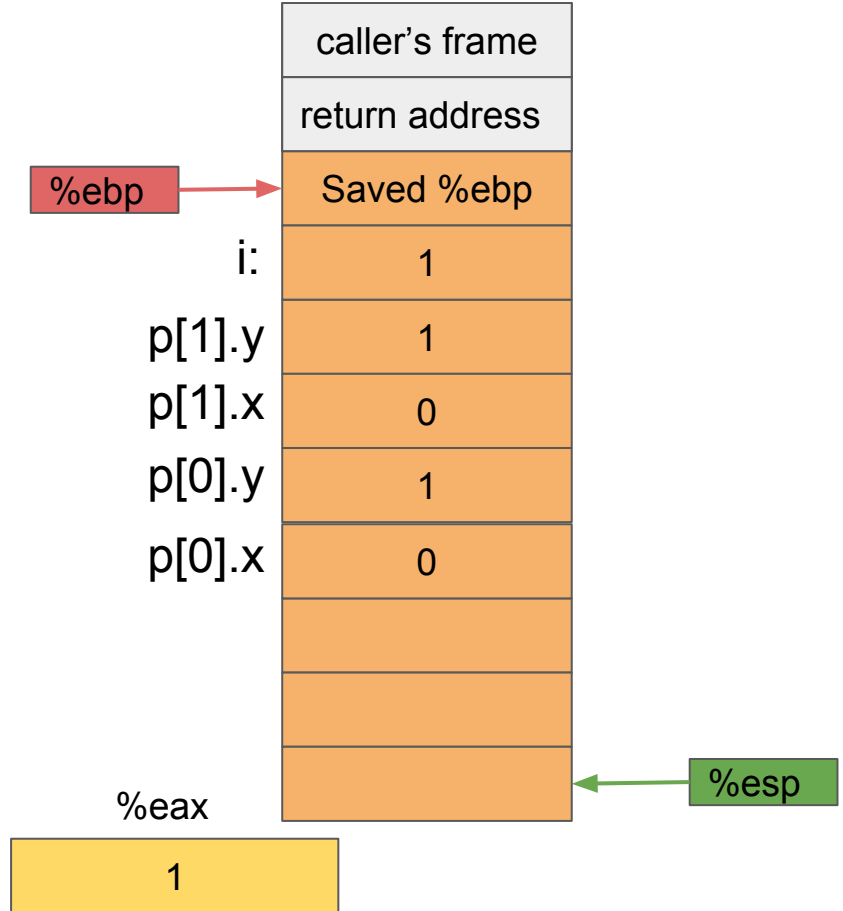
```
pushl %ebp
movl %esp, %ebp
subl $32, %esp
movl $0, -4(%ebp)
jmp .L2
```

.L3:

```
movl -4(%ebp), %eax
movl $0, -20(%ebp,%eax,8)
movl -4(%ebp), %eax
movl $1, -16(%ebp,%eax,8)
addl $1, -4(%ebp)
```

.L2:

```
cmpl $1, -4(%ebp)
jle .L3
leave
ret
```



func:

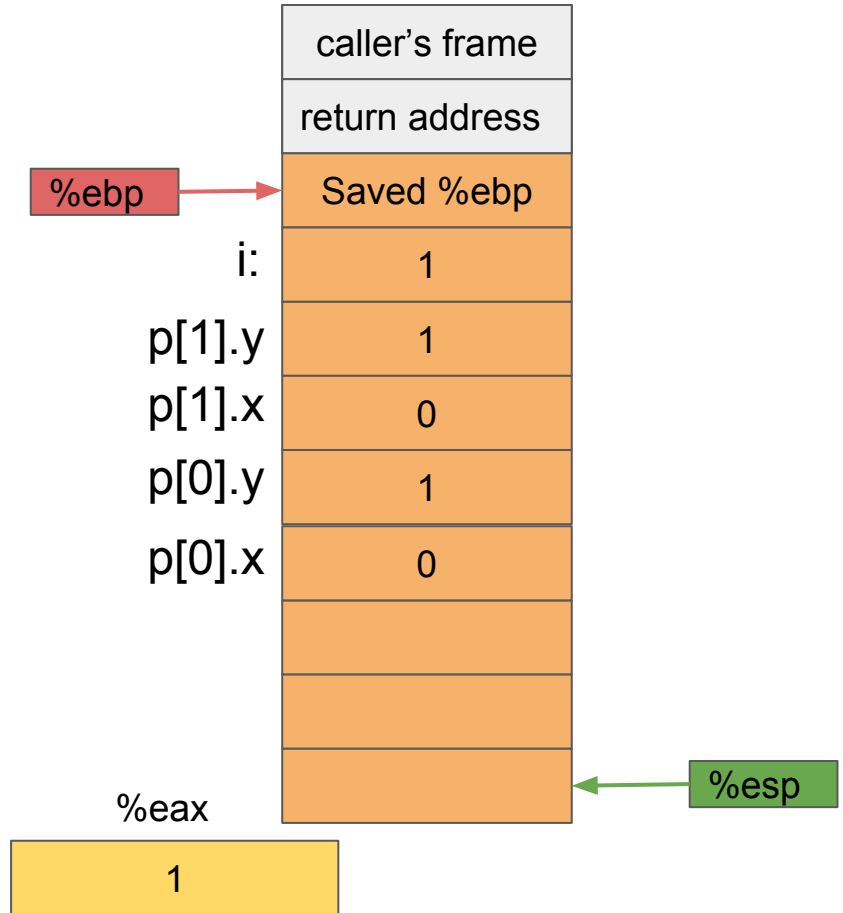
```
pushl %ebp
movl %esp, %ebp
subl $32, %esp
movl $0, -4(%ebp)
jmp .L2
```

.L3:

```
movl -4(%ebp), %eax
movl $0, -20(%ebp,%eax,8)
movl -4(%ebp), %eax
movl $1, -16(%ebp,%eax,8)
addl $1, -4(%ebp)
```

.L2:

```
cmpl $1, -4(%ebp)
jle .L3
leave
ret
```



func:

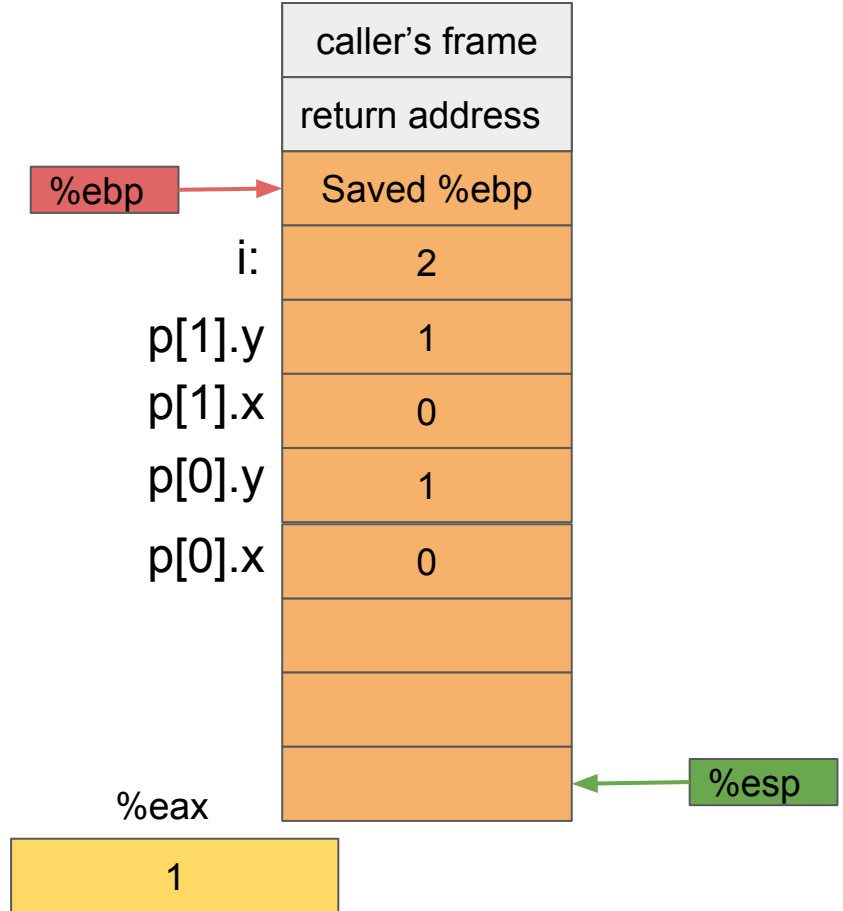
```
    pushl    %ebp
    movl    %esp, %ebp
    subl    $32, %esp
    movl    $0, -4(%ebp)
    jmp     .L2
```

.L3:

```
    movl    -4(%ebp), %eax
    movl    $0, -20(%ebp,%eax,8)
    movl    -4(%ebp), %eax
    movl    $1, -16(%ebp,%eax,8)
    addl    $1, -4(%ebp)
```

.L2:

```
    cmpl    $1, -4(%ebp)
    jle     .L3
    leave
    ret
```



func:

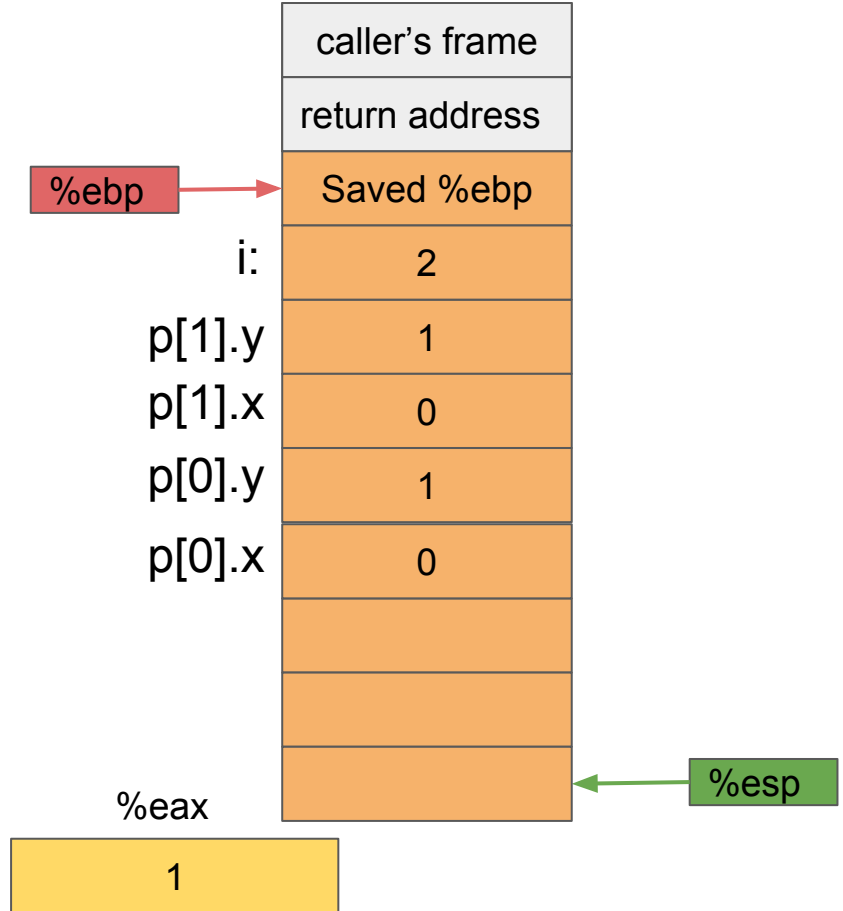
```
pushl %ebp
movl %esp, %ebp
subl $32, %esp
movl $0, -4(%ebp)
jmp .L2
```

.L3:

```
movl -4(%ebp), %eax
movl $0, -20(%ebp,%eax,8)
movl -4(%ebp), %eax
movl $1, -16(%ebp,%eax,8)
addl $1, -4(%ebp)
```

.L2:

```
cmpl $1, -4(%ebp)
jle .L3
leave
ret
```



func:

```
pushl %ebp
movl %esp, %ebp
subl $32, %esp
movl $0, -4(%ebp)
jmp .L2
```

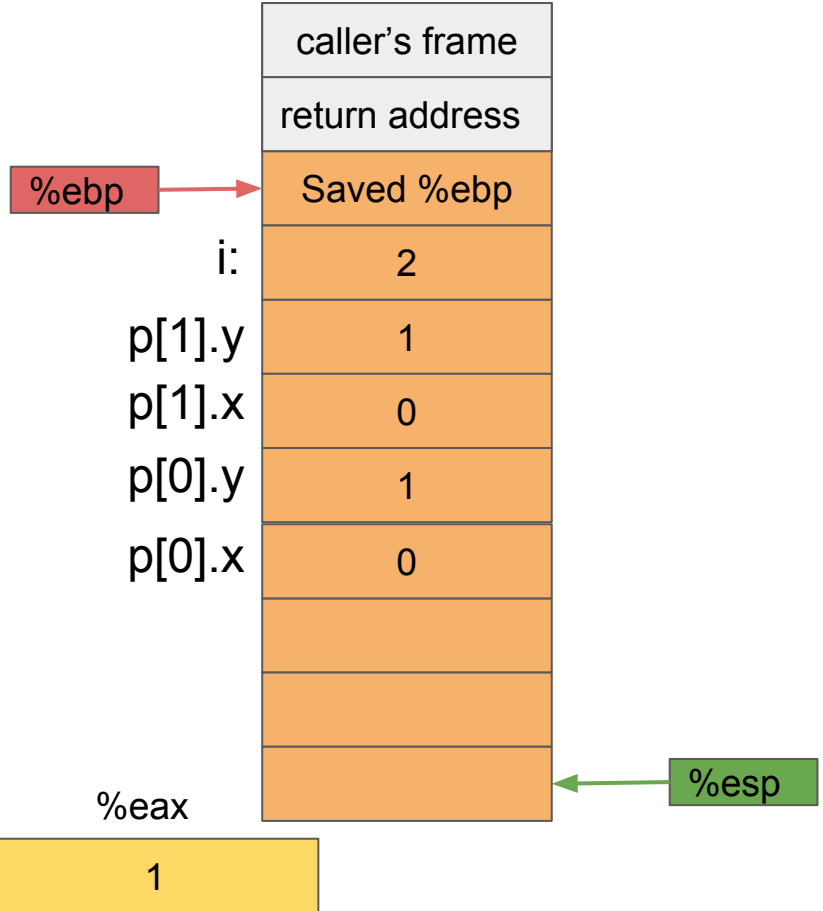
.L3:

```
movl -4(%ebp), %eax
movl $0, -20(%ebp,%eax,8)
movl -4(%ebp), %eax
movl $1, -16(%ebp,%eax,8)
addl $1, -4(%ebp)
```

.L2:

```
cmpl $1, -4(%ebp)
jle .L3
leave
ret
```

Jump if $2 \leq 1$



func:

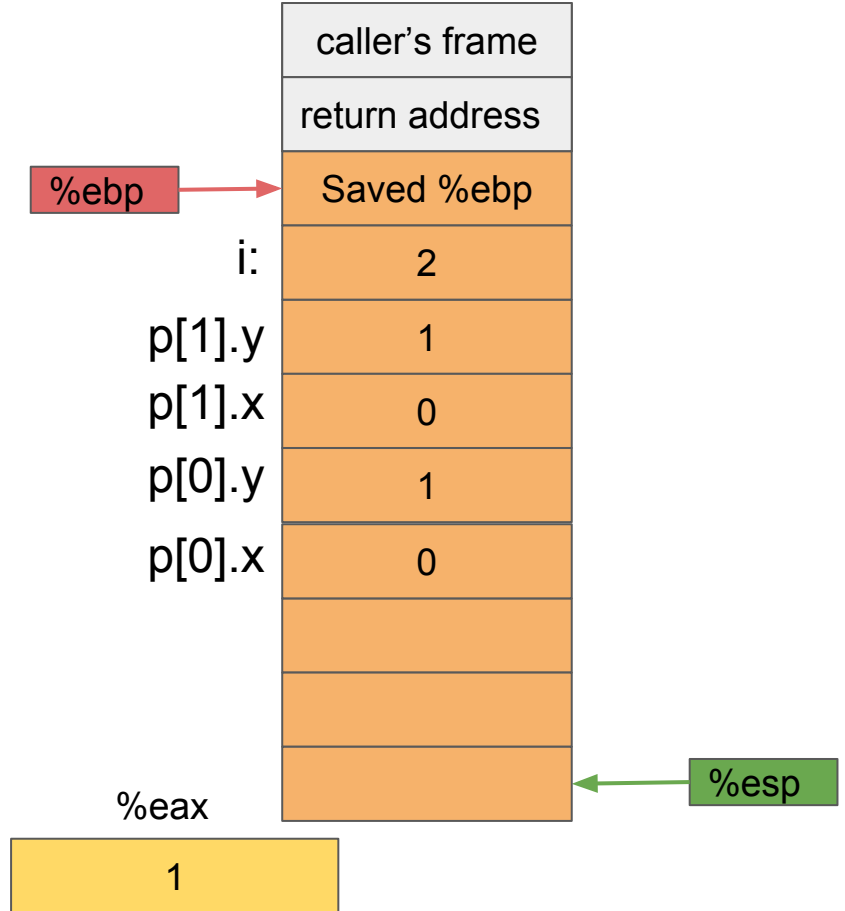
```
    pushl    %ebp
    movl    %esp, %ebp
    subl    $32, %esp
    movl    $0, -4(%ebp)
    jmp     .L2
```

.L3:

```
    movl    -4(%ebp), %eax
    movl    $0, -20(%ebp,%eax,8)
    movl    -4(%ebp), %eax
    movl    $1, -16(%ebp,%eax,8)
    addl    $1, -4(%ebp)
```

.L2:

```
    cmpl    $1, -4(%ebp)
    jle     .L3
    leave
    ret
```



func:

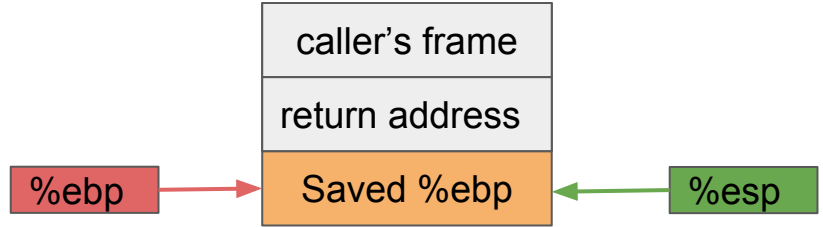
```
    pushl    %ebp
    movl    %esp, %ebp
    subl    $32, %esp
    movl    $0, -4(%ebp)
    jmp    .L2
```

.L3:

```
    movl    -4(%ebp), %eax
    movl    $0, -20(%ebp,%eax,8)
    movl    -4(%ebp), %eax
    movl    $1, -16(%ebp,%eax,8)
    addl    $1, -4(%ebp)
```

.L2:

```
    cmpl    $1, -4(%ebp)
    jle    .L3
leave
    ret
```



%eax

1

func:

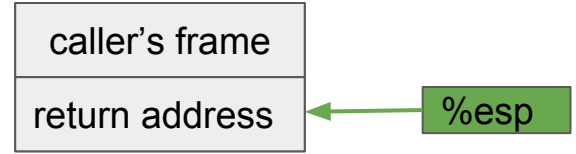
```
    pushl    %ebp
    movl    %esp, %ebp
    subl    $32, %esp
    movl    $0, -4(%ebp)
    jmp    .L2
```

.L3:

```
    movl    -4(%ebp), %eax
    movl    $0, -20(%ebp,%eax,8)
    movl    -4(%ebp), %eax
    movl    $1, -16(%ebp,%eax,8)
    addl    $1, -4(%ebp)
```

.L2:

```
    cmpl    $1, -4(%ebp)
    jle    .L3
leave
    ret
```



%eax



func:

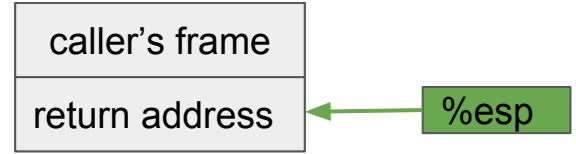
```
    pushl    %ebp
    movl    %esp, %ebp
    subl    $32, %esp
    movl    $0, -4(%ebp)
    jmp    .L2
```

.L3:

```
    movl    -4(%ebp), %eax
    movl    $0, -20(%ebp,%eax,8)
    movl    -4(%ebp), %eax
    movl    $1, -16(%ebp,%eax,8)
    addl    $1, -4(%ebp)
```

.L2:

```
    cmpl    $1, -4(%ebp)
    jle    .L3
    leave
ret
```



%eax



func:

```
    pushl    %ebp
    movl    %esp, %ebp
    subl    $32, %esp
    movl    $0, -4(%ebp)
    jmp    .L2
```

.L3:

```
    movl    -4(%ebp), %eax
    movl    $0, -20(%ebp,%eax,8)
    movl    -4(%ebp), %eax
    movl    $1, -16(%ebp,%eax,8)
    addl    $1, -4(%ebp)
```

.L2:

```
    cmpl    $1, -4(%ebp)
    jle    .L3
    leave
ret
```



%eax



Questions?