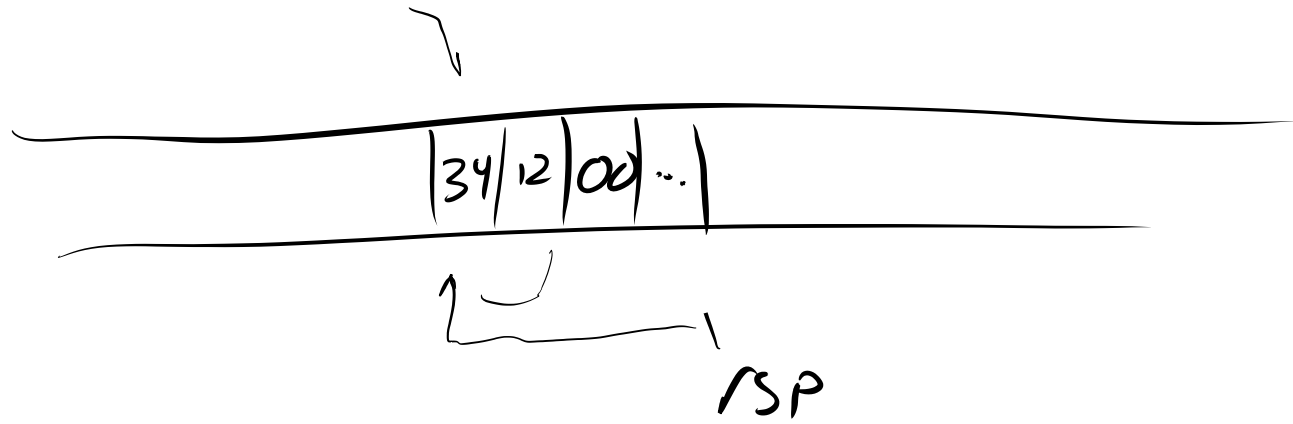
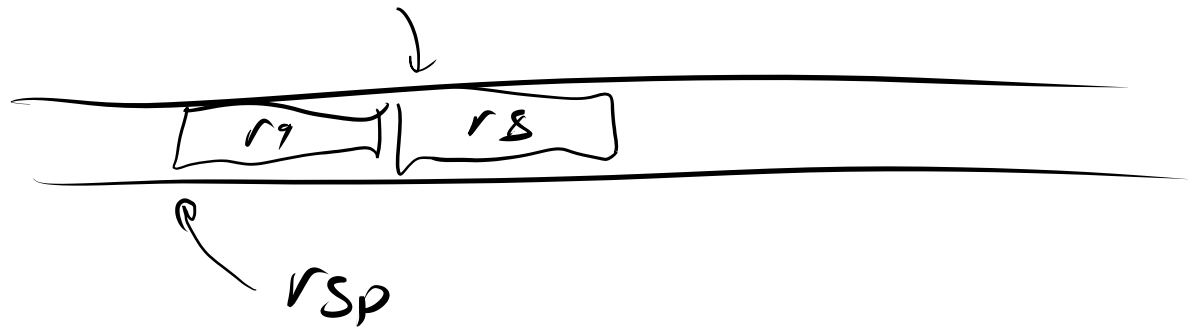


pushq 0x1234



pushq r8
pushq r9



movq 1234, %rax
movq myvar, %rax

ST/My "hi"
ASCII 2 "hi"

992 0x3E0

SP | ~~1000~~ 0x3E9

pusha \$0x1234

1001

1000

998

⋮

994

993 3E1

992 3E0

⋮

00

12

34

func(x, y)

mov [x], rdi
call [y], rsi
func

func:
push

pop
ret

C is a thin wrapper around a assembly

```
{  
in x = 3;  
}
```

Compilation Pipeline

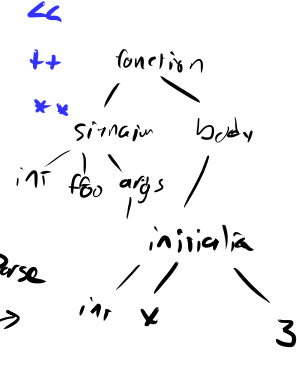
```
int foo() {
  int x = 3;
  // comment
  return x * 2;
}
```

Preprocessor

```
int foo() {
  int x = 3;
  return x * 2;
}
```

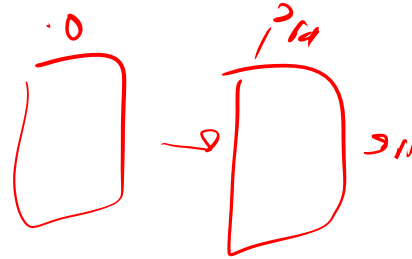
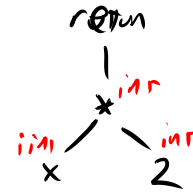
lexer

```
int
foo
(
)
{
int
x
=
3
;
return
x
*
x
2
;
}
```



TYPE
check

```
x [int]
```



double x;

int y = 2

x = y + 3;

