

```

if (...) {
} else if (...) {
}

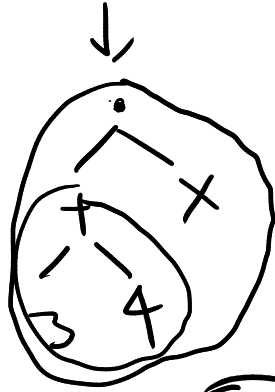
```

```

if (...) {
} else {
  if (...) {
  }
}

```

$3+4 \rightarrow t_1 = \text{add } 3, 4$
 $(3+4) \cdot x \rightarrow t_2 = \text{add } t_1, x$

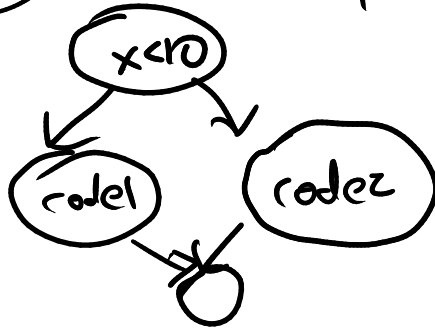


$t_1 = 3$
 $t_2 = 4$
 $t_3 = t_1 + t_2$
 $t_4 = t_3 \cdot x$

```

if (x < 10) {
  // code 1
} else {
  // code 2
}

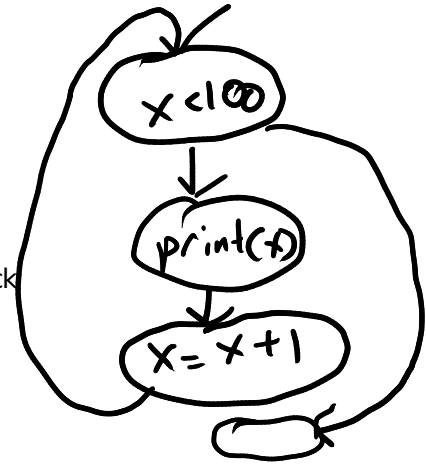
```



```

while x < 100 {
  print(x)
  x++
}

```



Basic block:

- a sequence of instructions that always executes from the start to the end as a single path
- only the first instruction may be the successor of another block