```
t F(int §n) {
  if(§n == 0 || §n == 1)
    return §n;
}else{
  return F(§n - 1) +
```

## Mini C

PuC - Mini C

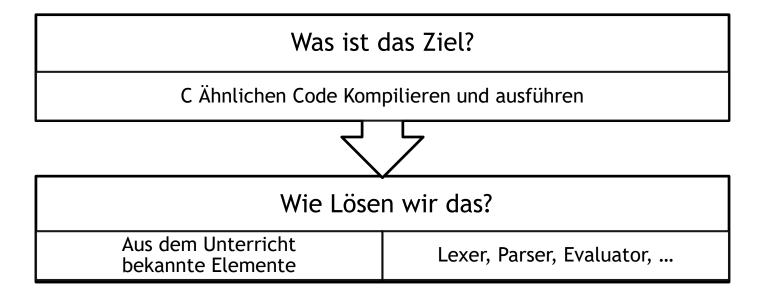
11140150 Dennis Goßler 11141259 Lukas Momberg

28.07.2021

```
n(int Sb)
```

```
return F(Sb);
```

## Ziel



#### Lexer

```
int F(int §n) {
    if(\S n == 0 \mid | \S n == 1){
        return §n;
    }else{
        return F(\S n - 1) + F(\S n - 2)
int Main(int Sb)
    return F(Sb);
```

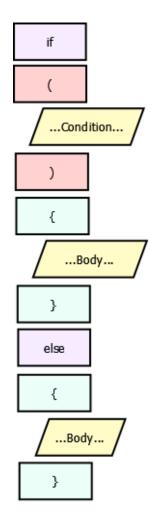
- Keywords (If, While, ...)
- Symbols ( =, ; , ... )

Token

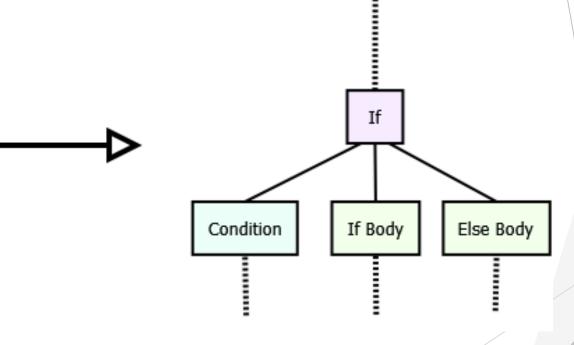
- Operatoren (+, -, ==, ...)
- Literals (Number, Bool, Char)
- Control Token (EOF)

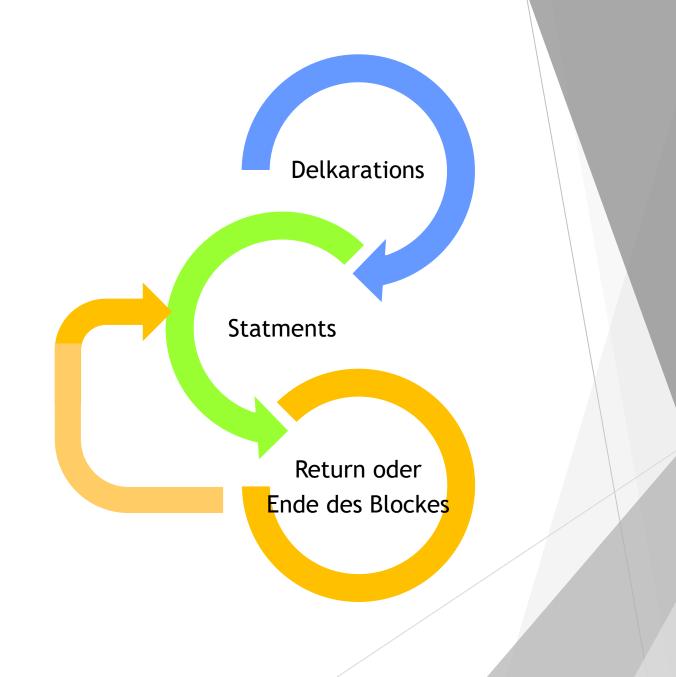
#### Parser

Ergebnis Tokens aus dem Lexer

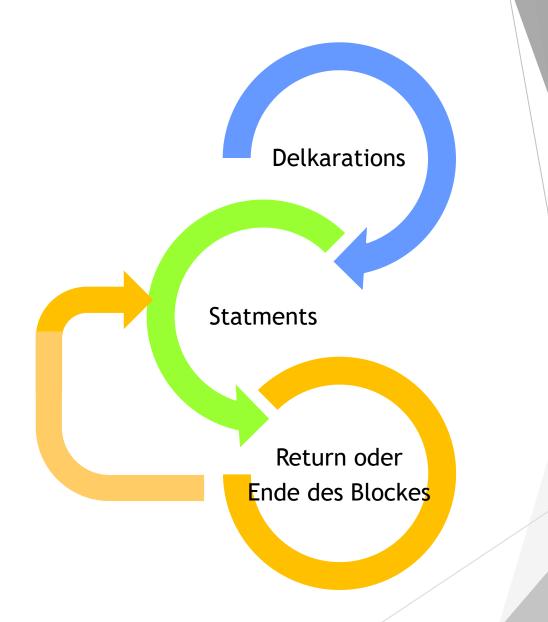


Baum-Strucktur

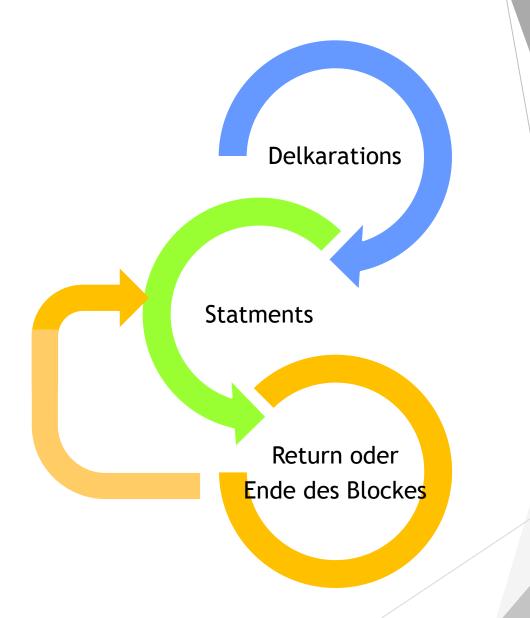




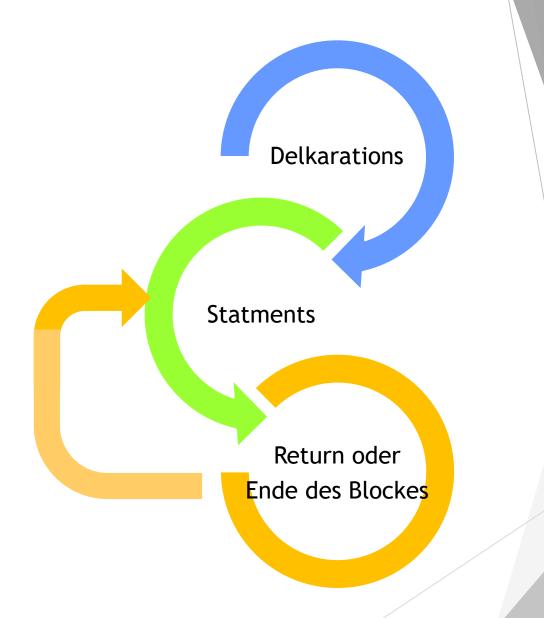
```
int Main()
   int §a = 1;
   int §b = §a * 2;
   Sb = Sb + Sb;
    Println(Sb);
       int §a = §a + §a;
        Println(Sa);
        Println(Sb);
   return Sa;
```



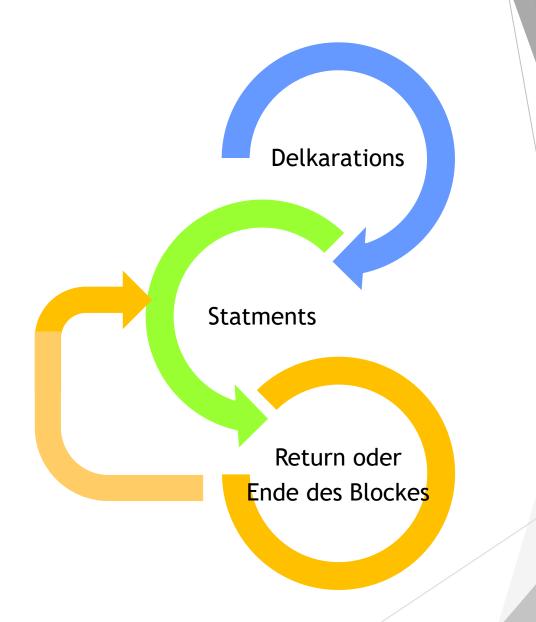
```
int Main()
   int §a = 1;
    int §b = §a * 2;
   Sb = Sb + Sb;
    Println(Sb);
        int Sa = Sa + Sa;
        Println(Sa);
        Println(Sb);
   return Sa;
```



```
int Main()
   int §a = 1;
    int §b = §a * 2;
    Sb = Sb + Sb;
    Println(Sb);
       int Sa = Sa + Sa;
        Println(Sa);
        Println(Sb);
   return Sa;
```



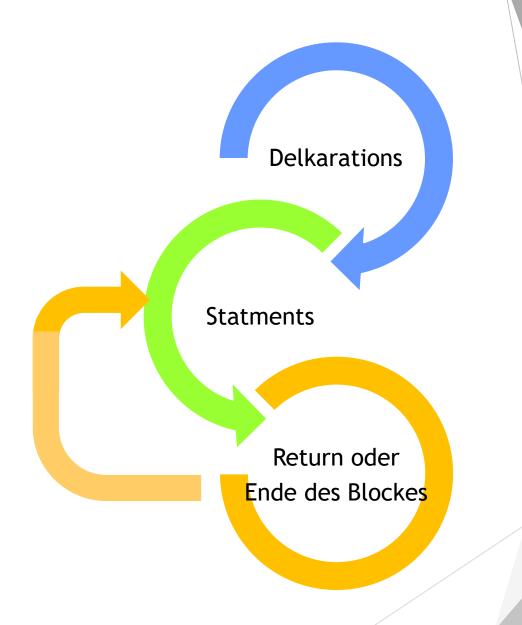
```
int Main()
    int §a = 1;
    int \$b = \$a * 2;
    Sb = Sb + Sb;
    Println(Sb);
        int §a = §a + §a;
        Println(Sa);
        Println(Sb);
    return Sa;
```



```
int Main()
   int §a = 1;
    int §b = §a * 2;
    Sb = Sb + Sb;
    Println(Sb);
        int §a = §a + §a;
        Println(§a);
        Println(Sb);
   return Sa;
```



```
int Main()
   int §a = 1;
    int §b = §a * 2;
    Sb = Sb + Sb;
    Println(Sb);
        int §a = §a + §a;
        Println(§a);
        Println(§b);
   return Sa;
```



```
int Main(int Sa)
{
   bool Sb = 5 + Sa == 7;
   return Sb;
}
```

```
int Main(int Sa)
{
    bool Sb = 5 + Sa == 7;
    return Sb;
}
```

```
int Main(int Sa)
{
    bool Sb = 5 + Sa == 7;
    return Sb;
}
```

```
int Main(int Sa)
{
   bool Sb = 5 + Sa == 7;
   return Sb;
}
```

\*ShowCase...\*

# Vielen Dank für ihre Aufmerksamkeit

Link zum Repository: <a href="https://github.com/DennisGoss99/PuC\_Praktikum\_C--">https://github.com/DennisGoss99/PuC\_Praktikum\_C--</a>