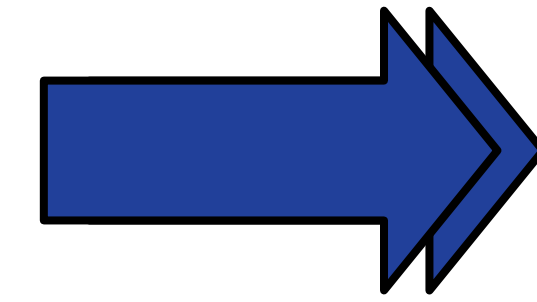


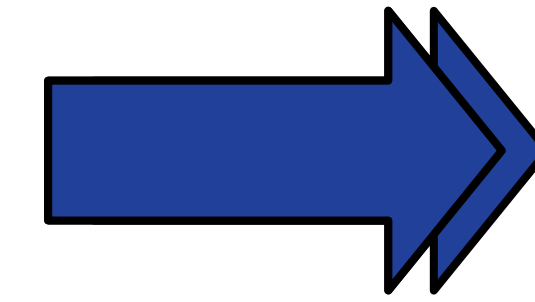
```
int fatorial(int n)
int fat;
/* não calcula se n > 0 */
if (n > 0) {
    fat = 1;
    while (0 < n){
        fat = fat * n;
        n = n - 1;
    }
    /* retorna o valor do fatorial de n */
    return(fat)
}
else return (0)
}

int main(void){
    int n;
    n = input();
    output(fatorial(n))
    return(0)
}
```

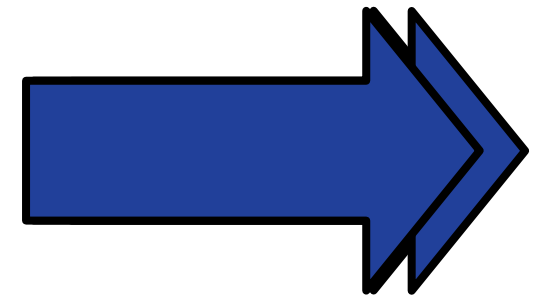
Linguagem C-



Compilador



LLVM IR



**Código
Intermediário**

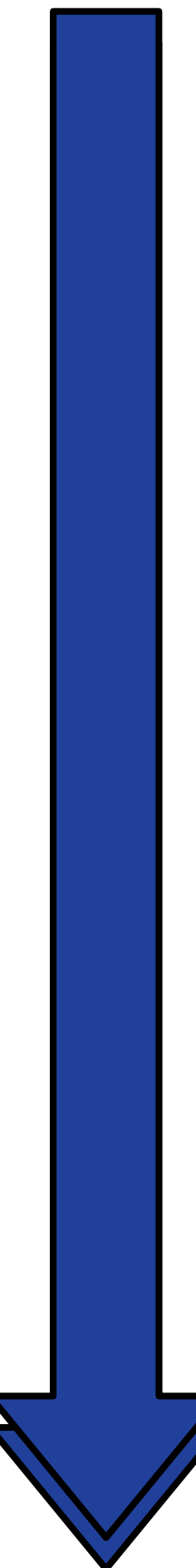
**Técnicas
e
Mecanismos**

Análise Léxica

Análise Sintática

Análise Semântica

Geração de Código



**Binário
Executável**



LLVM

<https://llvm.org>



Ferramentas do LLVM
(llc, lli, clang...)