



```
fun applyTwice(i:Int, f:(Int)->Int):Int = f(f(i))
```

**minifunctions**

**compilation**

```
fun main() {  
    val res = applyTwice(2) {  
        it * 2  
    }  
}
```

















```
public static void main()  
{  
    int i = 2;  
    int it = i * 2;  
    int res = it * 2;  
}
```

\* pseudocode that describes the worst case scenario, the complexity might be minimized when possible



**inline**

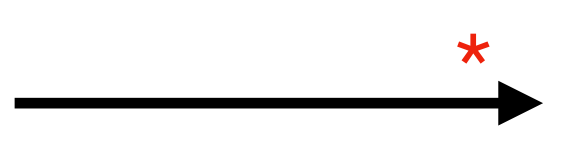


# Inline functions

## compilation

```
inline fun applyTwice(i: Int, f: (Int) -> Int): Int = f(f(i))
```

```
fun main() {  
    val res = applyTwice(2) {  
        it * 2  
    }  
}
```



```
public static void main()  
{  
    int i = 2;  
    int it = i * 2;  
    int res = it * 2;  
}
```

\* pseudo-code that describes the worst case scenario, the compiler might do some extra optimizations where possible

**Could a recursive function be inline?**