

minifunctions

compilation





























































































































































```
public static final Integer applyTwice(  
    Integer i,  
    Function1<Integer, Integer> f) {  
return f.invoke(f.invoke(i));  
}  
  
public static final void main() {  
    Integer res = applyTwice(2,  
        new Function1<Integer, Integer>() {  
            @Override  
            public Integer invoke(Integer i) {  
                return i * 2;  
            }  
        }  
    ));  
}
```



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



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

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

Inline functions compilation

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

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



```
public static final Integer applyTwice(  
    Integer i,  
    Function1<Integer, Integer> f) {  
    return f.invoke(f.invoke(i));  
}  
  
public static final void main() {  
    Integer res = applyTwice(2,  
        new Function1<Integer, Integer>() {  
        @Override  
        public Integer invoke(Integer i) {  
            return i * 2;  
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    });  
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```


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

Inline functions

compilation

```
fun applyTwice(i: Int, f: (Int) -> Int): Int = f(f(i))
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```
fun main() {  
    val res = applyTwice(2) {  
        it * 2  
    }  
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* pseudo-code that describes the worst case scenario, the compiler might do some extra optimizations where possible