Constants

Constants

- const (for primitive types and String)
- @JvmField (eliminates accessors)

Compile-time constants

```
for primitive types and String

const val answer = 42
```

the value is inlined

exposes a Kotlin property as a field in Java

```
@JvmField
val property = MyClass()

// the same as
// Java
public static final MyClass property = new MyClass();
```

exposes a Kotlin property as a field in Java

```
No getter!

@JvmField

val property = MyClass()

// the same as

// Java

public static final MyClass property = new MyClass();
```

@JvmField makes a property static if used at the top-level or inside object

```
regular field
class A {
                                    generated
     @JvmField
     val property = MyClass()
                                  static field
object B {
                                   generated
    @JvmField
    val property = MyClass()
```

Which declaration(s) will expose answer as static field when used from Java?

```
object SuperComputer {
   val answer = 42
}
```

- 1 @JvmStatic val answer = 42
- 2. @JvmField val answer = 42
- 3 const val answer = 42





Which declaration(s) will expose answer as static field when used from Java?

```
object SuperComputer {
   val answer = 42
}
```

```
1. @JvmStatic
val answer = 42
```

```
2. @JvmField val answer = 42
```

```
3. const val answer = 42
```

Property in an object

```
object SuperComputer {
    val answer = 42
}

// Java
SuperComputer.INSTANCE.getAnswer()
```

@JvmStatic

```
object SuperComputer {
    @JvmStatic
    val answer = 42
}

field isn't
    exposed
// Java
SuperComputer.getAnswer()
```

```
object SuperComputer {
    @JvmField
    val answer = 42
}

// Java
SuperComputer.answer
```

const

```
object SuperComputer {
   const val answer = 42
}
```

// Java SuperComputer.answer

Which declaration(s) will inline the value of answer in the resulting bytecode?

```
object SuperComputer {
   val answer = 42
}
```

println(SuperComputer.answer)



```
System.out.println(42)
```

- 1 @JvmStatic val answer = 42
- 2. @JvmField val answer = 42
- 3 const val answer = 42



Which declaration(s) will inline the value of answer in the resulting bytecode?

```
object SuperComputer {
   val answer = 42
}
```

println(SuperComputer.answer)



```
System.out.println(42);
```

- 1. @JvmStatic val answer = 42
- 2. @JvmField val answer = 42
- 3 const val answer = 42

@JvmStatic

```
object SuperComputer {
    @JvmStatic
    val answer = 42
println(SuperComputer.answer)
```

System.out.println(SuperComputer.getAnswer());

```
object SuperComputer {
    @JvmField
    val answer = 42
println(SuperComputer.answer)
System.out.println(SuperComputer.answer);
```

const

```
object SuperComputer {
    const val answer = 42
println(SuperComputer.answer)
System.out.println(42);
```

Which declaration(s) will expose a top-level property as static field when used from Java?

val answer = 42

```
1. val answer = 42
```

- 2. @JvmField val answer = 42
- 3 const val answer = 42



Which declaration(s) will expose a top-level property as static field when used from Java?

val answer = 42

```
1. val answer = 42
```

- 2. @JvmField val answer = 42
- 3. const val answer = 42

Which declaration(s) will expose a top-level property as static field when used from Java?

$$val answer = 42$$

1.
$$val answer = 42$$