| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DSAPrivateKeySpec.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/java/security/spec/DSAParameterSpec.html)   [**NEXT CLASS**](http://docs.google.com/java/security/spec/DSAPublicKeySpec.html) | [**FRAMES**](http://docs.google.com/index.html?java/security/spec/DSAPrivateKeySpec.html)    [**NO FRAMES**](http://docs.google.com/DSAPrivateKeySpec.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

## **java.security.spec**

Class DSAPrivateKeySpec

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **java.security.spec.DSAPrivateKeySpec**

**All Implemented Interfaces:** [KeySpec](http://docs.google.com/java/security/spec/KeySpec.html)

public class **DSAPrivateKeySpec**extends [Object](http://docs.google.com/java/lang/Object.html)implements [KeySpec](http://docs.google.com/java/security/spec/KeySpec.html)

This class specifies a DSA private key with its associated parameters.

**Since:** 1.2 **See Also:**[Key](http://docs.google.com/java/security/Key.html), [KeyFactory](http://docs.google.com/java/security/KeyFactory.html), [KeySpec](http://docs.google.com/java/security/spec/KeySpec.html), [DSAPublicKeySpec](http://docs.google.com/java/security/spec/DSAPublicKeySpec.html), [PKCS8EncodedKeySpec](http://docs.google.com/java/security/spec/PKCS8EncodedKeySpec.html)

| **Constructor Summary** | |
| --- | --- |
| [**DSAPrivateKeySpec**](http://docs.google.com/java/security/spec/DSAPrivateKeySpec.html#DSAPrivateKeySpec(java.math.BigInteger,%20java.math.BigInteger,%20java.math.BigInteger,%20java.math.BigInteger))([BigInteger](http://docs.google.com/java/math/BigInteger.html) x, [BigInteger](http://docs.google.com/java/math/BigInteger.html) p, [BigInteger](http://docs.google.com/java/math/BigInteger.html) q, [BigInteger](http://docs.google.com/java/math/BigInteger.html) g)            Creates a new DSAPrivateKeySpec with the specified parameter values. |

| **Method Summary** | |
| --- | --- |
| [BigInteger](http://docs.google.com/java/math/BigInteger.html) | [**getG**](http://docs.google.com/java/security/spec/DSAPrivateKeySpec.html#getG())()            Returns the base g. |
| [BigInteger](http://docs.google.com/java/math/BigInteger.html) | [**getP**](http://docs.google.com/java/security/spec/DSAPrivateKeySpec.html#getP())()            Returns the prime p. |
| [BigInteger](http://docs.google.com/java/math/BigInteger.html) | [**getQ**](http://docs.google.com/java/security/spec/DSAPrivateKeySpec.html#getQ())()            Returns the sub-prime q. |
| [BigInteger](http://docs.google.com/java/math/BigInteger.html) | [**getX**](http://docs.google.com/java/security/spec/DSAPrivateKeySpec.html#getX())()            Returns the private key x. |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [clone](http://docs.google.com/java/lang/Object.html#clone()), [equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [hashCode](http://docs.google.com/java/lang/Object.html#hashCode()), [notify](http://docs.google.com/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll()), [toString](http://docs.google.com/java/lang/Object.html#toString()), [wait](http://docs.google.com/java/lang/Object.html#wait()), [wait](http://docs.google.com/java/lang/Object.html#wait(long)), [wait](http://docs.google.com/java/lang/Object.html#wait(long,%20int)) |

| **Constructor Detail** |
| --- |

### DSAPrivateKeySpec

public **DSAPrivateKeySpec**([BigInteger](http://docs.google.com/java/math/BigInteger.html) x,  
 [BigInteger](http://docs.google.com/java/math/BigInteger.html) p,  
 [BigInteger](http://docs.google.com/java/math/BigInteger.html) q,  
 [BigInteger](http://docs.google.com/java/math/BigInteger.html) g)

Creates a new DSAPrivateKeySpec with the specified parameter values.

**Parameters:**x - the private key.p - the prime.q - the sub-prime.g - the base.

| **Method Detail** |
| --- |

### getX

public [BigInteger](http://docs.google.com/java/math/BigInteger.html) **getX**()

Returns the private key x.

**Returns:**the private key x.

### getP

public [BigInteger](http://docs.google.com/java/math/BigInteger.html) **getP**()

Returns the prime p.

**Returns:**the prime p.

### getQ

public [BigInteger](http://docs.google.com/java/math/BigInteger.html) **getQ**()

Returns the sub-prime q.

**Returns:**the sub-prime q.

### getG

public [BigInteger](http://docs.google.com/java/math/BigInteger.html) **getG**()

Returns the base g.

**Returns:**the base g.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DSAPrivateKeySpec.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/java/security/spec/DSAParameterSpec.html)   [**NEXT CLASS**](http://docs.google.com/java/security/spec/DSAPublicKeySpec.html) | [**FRAMES**](http://docs.google.com/index.html?java/security/spec/DSAPrivateKeySpec.html)    [**NO FRAMES**](http://docs.google.com/DSAPrivateKeySpec.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
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[Submit a bug or feature](http://bugs.sun.com/services/bugreport/index.jsp)

For further API reference and developer documentation, see [Java SE Developer Documentation](http://docs.google.com/webnotes/devdocs-vs-specs.html). That documentation contains more detailed, developer-targeted descriptions, with conceptual overviews, definitions of terms, workarounds, and working code examples.

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