

* | Access modifier

Public, Private, Protected, Default - No Keyword reapird

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method or data members, or can say the visibility control of class lenumlinterface.

	Same Package			Different Package		
Access modifier	same class	sub class	Non-900	500-class	Non-900 63055	
				Carlotte Carlotte		
Private	A	NA	NA	NA	NA	
Default	A	A	A	NA	NA	
Protected	А	A	A	A	NA	
Public	A	A	A.	A	A	
		THE RESERVE OF THE PARTY OF				

12 modifiers

Public, Private, Protected, default, Static , final, synchronized a adstract, native, strictsp, transient, volatile.

Components of Java:-

JOK - a software cumlopment environment used to develop Javo applications

JRE - Provides dibraries, Jum needed to run application written in Java.

JUM - Enecutes Java Bytecode on any platform.

* Meaning of Main omethod

- The comain amethod is entry point of any Java application.

- Public Static void main (String [] args) {}

· Public : Accessible from anywhere.

· Static : can be run without creating instance of class

· void : Returns no values.

· main : The name of method.

· String Args []: An array of cond-line argument

* Dato types

* Primitive data types -> (java.lang)

byte	1 byte	0	-128 to 127	
boolean	8 WAX	false	TOXF	
short	2 byte	, 0000e,	-32,768 to 32,767	
char	2 byte	dooo,	Single character/ASCIT val	
int	4 byte	0	in billions (2b)	
float	4 byte	0.05	6.7 decimal	
long	8 byte	OL	3 ×10'8	
double	8 byte	0.09	15 decimal	

* Local rariable does not consist of default value, s it should be initialized. (var inside method)

* Instance var - Inside class but outsid emethod.

* Static var - Belong to class, single copy, class level

*	doader							
	The colors laader is a port of Jum that cloads the colors bile cinto comemories.							
	Types:- (*t.jax = Tovo.long. (*t.jax = Tovo.long. (*t.jax = Tovo.long.							
	Extension class loader: Loads classes brom to							
	O system class loader: - doads classes from Int cclass path. - application specific classes.							
A	Components of JVM: (JDK)							
	② Java compiler → compiles sava source code unto bytecode.							
	(a) Jun → Enecutes Java byte code (c) Java API Librarius → cA set of Standard dibrarius (java lang, java util).							
	@ Development tools -> javadoc, jar, javap.							

Difference between JDK, JVM & JRE JOK -> 9+ is an duelopment text, used to develop Jours applications. -> clossist of Jum & standard lib JRE but one development tools, it is used to our java application. Jum -> can abstract machine that encutes en bytecocle. (word) * Memory comanagement of Jum Heap omeamory -> Stores Objects & their references. Stack omeamory - stores omethod can fromes, local variables & outwern address Garbage collection -> chutomatically vicleums commary. eno longer vufvenad. eg: Axim Obj = new Arith (); seterence variable obj (reation = new aritm (); aurocates omemory

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Heap -> object

Stack -> reference to that object.

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eg (structure s cometnods s fields)
- doo one cometadata

* What are JIT compilers -

Just In Jime compiler
gt ccompiles tru

byte code into evating code imachine at
ountime to improve performance

Interview a general -

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the cannot override a omethod with a many oustrictive access amodifiers eg cd protected omethod with superclass can be overridden with protected or public modifier in subclass.

- Sis ut possible uto amake Java class private?

-> and, a top-level class cannot be

uprotected or private, should be public

for top level, or default.

> Top-level → a class which is not nested inside other class.