


Method Overloading

- “Writing two or more methods with the same name but with different method signature is called Method Overloading”.
- It is also known as ‘**early-binding**’ or ‘**compile-time**’ polymorphism .
- Method calls are resolved at compile time.

Rules for performing overloading :

- ✓ **Must have different argument lists.**
- ✓ May have different return types, as long as the argument lists are also different.
- ✓ May have different access modifiers.
- ✓ May throw different exceptions.

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- Constructor over loading is possible.(We can't write constructors inside an interface).
 - Recursion in java is a process in which a method calls itself continuously, when we are trying to achieve recursion by using constructor overloading, we will be getting compile time error as “Recursive constructor invocation”.

- Can we overload main method? (Y/N)
- Can we declare overloaded method as final? (Y/N)
- Can we over load two methods if one method is static and other is non-static method? (Y/N)
- Can we achieve method overloading by changing the return -type? (Y/N)