

1. Given the following POM file, which version of Guava will be selected? * 1 point

```
<?xml version="1.0" encoding="UTF-8"?>
<project xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd"
  xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.acme</groupId>
  <artifactId>base</artifactId>
  <version>0.0.0-SNAPSHOT</version>

  <dependencies>
    <dependency>
      <groupId>com.google.guava</groupId>
      <artifactId>guava</artifactId>
      <version>27.0-jre</version>
    </dependency>
    <dependency>
      <groupId>com.google.guava</groupId>
      <artifactId>guava</artifactId>
      <version>28.2-jre</version>
    </dependency>
  </dependencies>
</project>
```

- ☐ 27.0-jre
- ☒ 28.2-jre
- ☐ Build error

2. Given the following POM file, which version of Guava will be selected? 1 point

Guava 27.0.1-android is a transitive dependency of Truth 1.0 *

```
<?xml version="1.0" encoding="UTF-8"?>
<project xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd"
  xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.acme</groupId>
  <artifactId>base</artifactId>
  <version>0.0.0-SNAPSHOT</version>

  <dependencies>
    <dependency>
      <groupId>com.google.guava</groupId>
      <artifactId>guava</artifactId>
      <version>28.2-jre</version>
    </dependency>
    <dependency>
      <groupId>com.google.truth</groupId>
      <artifactId>truth</artifactId>
      <version>1.0</version>
    </dependency>
  </dependencies>
</project>
```

- ☐ 27.0.1-android
- ☒ 28.2-jre
- ☐ Build error

3. Given the following POM file, which version of Guava will be selected? 1 point

Guava 27.0.1-android is a transitive dependency of Truth 1.0 *

```
<?xml version="1.0" encoding="UTF-8"?>
<project xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd"
  xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.acme</groupId>
  <artifactId>base</artifactId>
  <version>0.0.0-SNAPSHOT</version>

  <dependencyManagement>
    <dependencies>
      <dependency>
        <groupId>com.google.guava</groupId>
        <artifactId>guava</artifactId>
        <version>27.0-jre</version>
      </dependency>
    </dependencies>
  </dependencyManagement>

  <dependencies>
    <dependency>
      <groupId>com.google.truth</groupId>
      <artifactId>truth</artifactId>
      <version>1.0</version>
    </dependency>
  </dependencies>
</project>
```

- ☒ 27.0-jre
- ☐ 27.0.1-android
- ☐ Build error

4. Given the following POM file, which version of Guava will be selected? 1 point

Guava 27.0.1-android is a transitive dependency of Truth 1.0 *

```
<?xml version="1.0" encoding="UTF-8"?>
<project xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd"
  xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.acme</groupId>
  <artifactId>base</artifactId>
  <version>0.0.0-SNAPSHOT</version>

  <dependencyManagement>
    <dependencies>
      <dependency>
        <groupId>com.google.guava</groupId>
        <artifactId>guava</artifactId>
        <version>27.0-jre</version>
      </dependency>
    </dependencies>
  </dependencyManagement>

  <dependencies>
    <dependency>
      <groupId>com.google.guava</groupId>
      <artifactId>guava</artifactId>
      <version>28.2-jre</version>
    </dependency>
    <dependency>
      <groupId>com.google.truth</groupId>
      <artifactId>truth</artifactId>
      <version>1.0</version>
    </dependency>
  </dependencies>
</project>
```

- ☐ 27.0-jre
- ☐ 27.0.1-android
- ☒ 28.2-jre
- ☐ Build error

5. Given the following POM file, which version of Guava will be selected? 1 point

Guava 25.1-android is a transitive dependency of Guice 4.2.2; Guava 27.0.1-android is a transitive dependency of Truth 1.0; both Guava dependencies are at depth 1. *

```
<?xml version="1.0" encoding="UTF-8"?>
<project xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd"
  xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.acme</groupId>
  <artifactId>base</artifactId>
  <version>0.0.0-SNAPSHOT</version>

  <dependencies>
    <dependency>
      <groupId>com.google.inject</groupId>
      <artifactId>guice</artifactId>
      <version>4.2.2</version>
    </dependency>
    <dependency>
      <groupId>com.google.truth</groupId>
      <artifactId>truth</artifactId>
      <version>1.0</version>
    </dependency>
  </dependencies>
</project>
```

- ☒ 25.1-android
- ☐ 27.0.1-android
- ☐ Build error

6. Given the following POM file, which version of Guava will be selected? 1 point

Guava 25.1-android is a transitive dependency of Guice 4.2.2; Guava 27.0.1-android is a transitive dependency of Truth 1.0; both Guava dependencies are at depth 1. *

```
<?xml version="1.0" encoding="UTF-8"?>
<project xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd"
  xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.acme</groupId>
  <artifactId>base</artifactId>
  <version>0.0.0-SNAPSHOT</version>

  <dependencyManagement>
    <dependencies>
      <dependency>
        <groupId>com.google.guava</groupId>
        <artifactId>guava</artifactId>
        <version>28.2-jre</version>
      </dependency>
    </dependencies>
  </dependencyManagement>

  <dependencies>
    <dependency>
      <groupId>com.google.truth</groupId>
      <artifactId>truth</artifactId>
      <version>1.0</version>
    </dependency>
    <dependency>
      <groupId>com.google.inject</groupId>
      <artifactId>guice</artifactId>
      <version>4.2.2</version>
    </dependency>
  </dependencies>
</project>
```

- ☐ 25.1-android
- ☐ 27.0.1-android
- ☒ 28.2-jre
- ☐ Build error

7. Given the following parent POM file and project POM file, which version of Guava will be selected? Guava 27.0.1-android is a transitive dependency of Truth 1.0 *

1 point

```
<?xml version="1.0" encoding="UTF-8"?>
<project xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd"
  xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.acme</groupId>
  <artifactId>parent</artifactId>
  <version>0.0.0-SNAPSHOT</version>
  <packaging>pom</packaging>

  <dependencies>
    <dependency>
      <groupId>com.google.guava</groupId>
      <artifactId>guava</artifactId>
      <version>28.2-jre</version>
    </dependency>
  </dependencies>
</project>

<?xml version="1.0" encoding="UTF-8"?>
<project xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd"
  xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <modelVersion>4.0.0</modelVersion>
  <parent>
    <groupId>com.acme</groupId>
    <artifactId>parent</artifactId>
    <version>0.0.0-SNAPSHOT</version>
  </parent>

  <artifactId>base</artifactId>
  <version>0.0.0-SNAPSHOT</version>

  <dependencies>
    <dependency>
      <groupId>com.google.truth</groupId>
      <artifactId>truth</artifactId>
      <version>1.0</version>
    </dependency>
  </dependencies>
</project>
```

- ☐ 27.0.1-android
- ☒ 28.2-jre
- ☐ Build error

8. Given the following parent POM file and project POM file, which version of Guava will be selected? Guava 27.0.1-android is a transitive dependency of Truth 1.0 *

```
<?xml version="1.0" encoding="UTF-8"?>
<project xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd"
  xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.acme</groupId>
  <artifactId>parent</artifactId>
  <version>0.0.0-SNAPSHOT</version>
  <packaging>pom</packaging>

  <dependencyManagement>
    <dependencies>
      <dependency>
        <groupId>com.google.guava</groupId>
        <artifactId>guava</artifactId>
        <version>26.0-jre</version>
      </dependency>
    </dependencies>
  </dependencyManagement>

  <dependencies>
    <dependency>
      <groupId>com.google.guava</groupId>
      <artifactId>guava</artifactId>
      <version>28.2-jre</version>
    </dependency>
  </dependencies>
</project>

<?xml version="1.0" encoding="UTF-8"?>
<project xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd"
  xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <modelVersion>4.0.0</modelVersion>
  <parent>
    <groupId>com.acme</groupId>
    <artifactId>parent</artifactId>
    <version>0.0.0-SNAPSHOT</version>
  </parent>

  <artifactId>base</artifactId>
  <version>0.0.0-SNAPSHOT</version>

  <dependencies>
    <dependency>
      <groupId>com.google.truth</groupId>
      <artifactId>truth</artifactId>
      <version>1.0</version>
    </dependency>
  </dependencies>
</project>
```

- ☐ 26.0-jre
- ☐ 27.0.1-android
- ☒ 28.2-jre
- ☐ Build error

9. Given the following parent POM file and project POM file, which version of Guava will be selected? Guava 27.0.1-android is a transitive dependency of Truth 1.0 *

```
<?xml version="1.0" encoding="UTF-8"?>
<project xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd"
  xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.acme</groupId>
  <artifactId>parent</artifactId>
  <version>0.0.0-SNAPSHOT</version>
  <packaging>pom</packaging>

  <dependencyManagement>
    <dependencies>
      <dependency>
        <groupId>com.google.guava</groupId>
        <artifactId>guava</artifactId>
        <version>26.0-jre</version>
      </dependency>
    </dependencies>
  </dependencyManagement>
</project>

<?xml version="1.0" encoding="UTF-8"?>
<project xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd"
  xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <modelVersion>4.0.0</modelVersion>
  <parent>
    <groupId>com.acme</groupId>
    <artifactId>parent</artifactId>
    <version>0.0.0-SNAPSHOT</version>
  </parent>

  <artifactId>base</artifactId>
  <version>0.0.0-SNAPSHOT</version>

  <dependencies>
    <dependency>
      <groupId>com.google.truth</groupId>
      <artifactId>truth</artifactId>
      <version>1.0</version>
    </dependency>
  </dependencies>
</project>
```

- ☒ 26.0-jre
- ☐ 27.0.1-android
- ☐ Build error

10. Given the following parent POM file and project POM file, which version of Guava will be selected? Guava 27.0.1-android is a transitive dependency of Truth 1.0 *

```
<?xml version="1.0" encoding="UTF-8"?>
<project xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd"
  xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.acme</groupId>
  <artifactId>parent</artifactId>
  <version>0.0.0-SNAPSHOT</version>
  <packaging>pom</packaging>

  <dependencyManagement>
    <dependencies>
      <dependency>
        <groupId>com.google.guava</groupId>
        <artifactId>guava</artifactId>
        <version>26.0-jre</version>
      </dependency>
    </dependencies>
  </dependencyManagement>
</project>

<?xml version="1.0" encoding="UTF-8"?>
<project xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd"
  xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <modelVersion>4.0.0</modelVersion>
  <parent>
    <groupId>com.acme</groupId>
    <artifactId>parent</artifactId>
    <version>0.0.0-SNAPSHOT</version>
  </parent>

  <artifactId>base</artifactId>
  <version>0.0.0-SNAPSHOT</version>

  <dependencyManagement>
    <dependencies>
      <dependency>
        <groupId>com.google.guava</groupId>
        <artifactId>guava</artifactId>
        <version>28.2-jre</version>
      </dependency>
    </dependencies>
  </dependencyManagement>

  <dependencies>
    <dependency>
      <groupId>com.google.truth</groupId>
      <artifactId>truth</artifactId>
      <version>1.0</version>
    </dependency>
  </dependencies>
</project>
```

- ☐ 26.0-jre
- ☐ 27.0.1-android
- ☒ 28.2-jre
- ☐ Build error

11. Given the following BOM file and project POM file, which version of Guava will be selected? Guava 25.1-android is a transitive dependency of Guice 4.2.2; Guava 27.0.1-android is a transitive dependency of Truth 1.0 *

1 point

```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.acme</groupId>
  <artifactId>bom</artifactId>
  <version>0.0.0-SNAPSHOT</version>
  <packaging>pom</packaging>

  <dependencyManagement>
    <dependencies>
      <dependency>
        <groupId>com.google.guava</groupId>
        <artifactId>guava</artifactId>
        <version>28.2-jre</version>
      </dependency>
    </dependencies>
  </dependencyManagement>
</project>

<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>

  <groupId>com.acme</groupId>
  <artifactId>base</artifactId>
  <version>0.0.0-SNAPSHOT</version>

  <dependencyManagement>
    <dependencies>
      <dependency>
        <groupId>com.acme</groupId>
        <artifactId>bom</artifactId>
        <version>0.0.0-SNAPSHOT</version>
        <scope>import</scope>
        <type>pom</type>
      </dependency>
    </dependencies>
  </dependencyManagement>

  <dependencies>
    <dependency>
      <groupId>com.google.truth</groupId>
      <artifactId>truth</artifactId>
      <version>1.0</version>
    </dependency>
    <dependency>
      <groupId>com.google.inject</groupId>
      <artifactId>guice</artifactId>
      <version>4.2.2</version>
    </dependency>
  </dependencies>
</project>
```

- ☐ 25.1-android
- ☐ 27.0.1-android
- ☒ 28.2-jre
- ☐ Build error

12. Given the following BOM file and project POM file, which version of Guava will be selected? Guava 27.0.1-android is a transitive dependency of Truth 1.0 *

1 point

```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.acme</groupId>
  <artifactId>bom</artifactId>
  <version>0.0.0-SNAPSHOT</version>
  <packaging>pom</packaging>

  <dependencyManagement>
    <dependencies>
      <dependency>
        <groupId>com.google.guava</groupId>
        <artifactId>guava</artifactId>
        <version>26.0-jre</version>
      </dependency>
    </dependencies>
  </dependencyManagement>

  <dependencies>
    <dependency>
      <groupId>com.google.guava</groupId>
      <artifactId>guava</artifactId>
      <version>28.2-jre</version>
    </dependency>
  </dependencies>
</project>

<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>

  <groupId>com.acme</groupId>
  <artifactId>base</artifactId>
  <version>0.0.0-SNAPSHOT</version>

  <dependencyManagement>
    <dependencies>
      <dependency>
        <groupId>com.acme</groupId>
        <artifactId>bom</artifactId>
        <version>0.0.0-SNAPSHOT</version>
        <scope>import</scope>
        <type>pom</type>
      </dependency>
    </dependencies>
  </dependencyManagement>

  <dependencies>
    <dependency>
      <groupId>com.google.truth</groupId>
      <artifactId>truth</artifactId>
      <version>1.0</version>
    </dependency>
  </dependencies>
</project>
```

- ☐ 26.0-jre
- ☐ 27.0.1-android
- ☒ 28.2-jre
- ☐ Build error

13. Given the following BOM file and project POM file, which version of Guava will be selected? Guava 27.0.1-android is a transitive dependency of Truth 1.0 *

1 point

```
<?xml version="1.0" encoding="UTF-8"?>
<project xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd"
  xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.acme</groupId>
  <artifactId>bom</artifactId>
  <version>0.0.0-SNAPSHOT</version>
  <packaging>pom</packaging>

  <dependencyManagement>
    <dependencies>
      <dependency>
        <groupId>com.google.guava</groupId>
        <artifactId>guava</artifactId>
        <version>28.2-jre</version>
      </dependency>
    </dependencies>
  </dependencyManagement>
</project>

<?xml version="1.0" encoding="UTF-8"?>
<project xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd"
  xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <modelVersion>4.0.0</modelVersion>

  <groupId>com.acme</groupId>
  <artifactId>base</artifactId>
  <version>0.0.0-SNAPSHOT</version>

  <dependencyManagement>
    <dependencies>
      <dependency>
        <groupId>com.acme</groupId>
        <artifactId>bom</artifactId>
        <version>0.0.0-SNAPSHOT</version>
        <scope>import</scope>
        <type>pom</type>
      </dependency>
      <dependency>
        <groupId>com.google.guava</groupId>
        <artifactId>guava</artifactId>
        <version>26.0-jre</version>
      </dependency>
    </dependencies>
  </dependencyManagement>

  <dependencies>
    <dependency>
      <groupId>com.google.truth</groupId>
      <artifactId>truth</artifactId>
      <version>1.0</version>
    </dependency>
  </dependencies>
</project>
```

- ☒ 26.0-jre
- ☐ 27.0.1-android
- ☐ 28.2-jre
- ☐ Build error

14. Given the following BOM file and project POM file, which version of Guava will be selected? Guava 27.0.1-android is a transitive dependency of Truth 1.0 *

1 point

```
<?xml version="1.0" encoding="UTF-8"?>
<project xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd"
  xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.acme</groupId>
  <artifactId>bom</artifactId>
  <version>0.0.0-SNAPSHOT</version>
  <packaging>pom</packaging>

  <dependencyManagement>
    <dependencies>
      <dependency>
        <groupId>com.google.guava</groupId>
        <artifactId>guava</artifactId>
        <version>26.0-jre</version>
      </dependency>
    </dependencies>
  </dependencyManagement>
</project>

<?xml version="1.0" encoding="UTF-8"?>
<project xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd"
  xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <modelVersion>4.0.0</modelVersion>

  <groupId>com.acme</groupId>
  <artifactId>base</artifactId>
  <version>0.0.0-SNAPSHOT</version>

  <dependencyManagement>
    <dependencies>
      <dependency>
        <groupId>com.acme</groupId>
        <artifactId>bom</artifactId>
        <version>0.0.0-SNAPSHOT</version>
        <scope>import</scope>
        <type>pom</type>
      </dependency>
    </dependencies>
  </dependencyManagement>

  <dependencies>
    <dependency>
      <groupId>com.google.guava</groupId>
      <artifactId>guava</artifactId>
      <version>28.2-jre</version>
    </dependency>
    <dependency>
      <groupId>com.google.truth</groupId>
      <artifactId>truth</artifactId>
      <version>1.0</version>
    </dependency>
  </dependencies>
</project>
```

- ☐ 26.0-jre
- ☐ 27.0.1-android
- ☒ 28.2-jre
- ☐ Build error