Create a new application managed by Maven in Intellij IDEA.

Set maven.compiler.source and maven.compiler.target to 1.8 in the pom.xml.

Add *build* section to the pom.xml and set *finalName*.

Add a *manifest* to the project.

Add a *manifest* section to the pom.xml

Add class *Main* with method *main.*

Create jar file by command *mvn package*

Run your application in the terminal

Create array of integers of size N=10_000_000 in the method *main*

Run the application with VM options: -Xmx64m -Xms64m

Increase N (in your code) to achieve java.lang.OutOfMemoryError

On base of N and Xmx estimate the size of *int*

Can you change the code to achieve better precision?