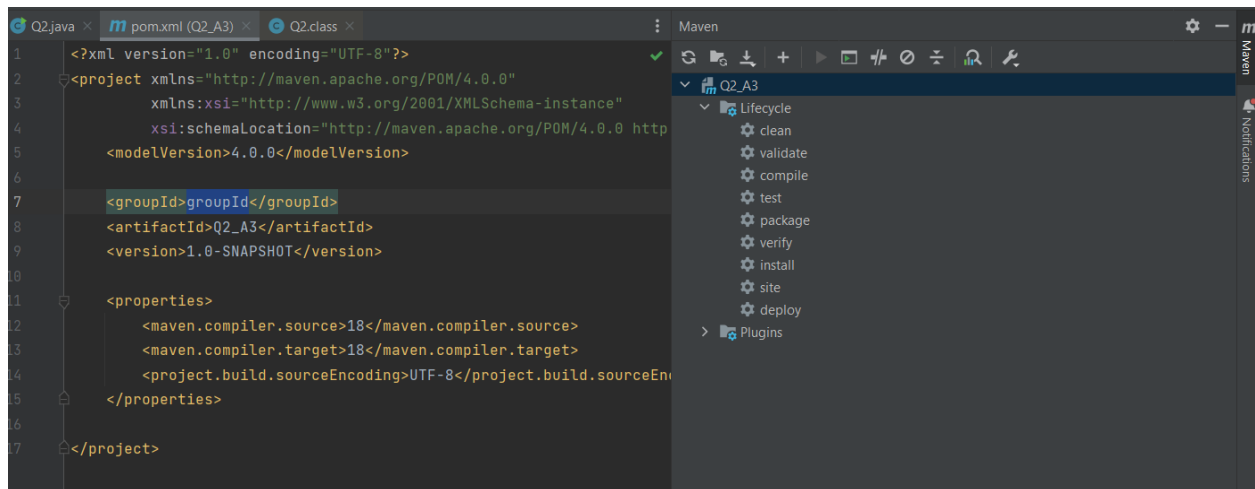> open maven project in intellij
> open pom.xml file
> click on maven>lifecycycle

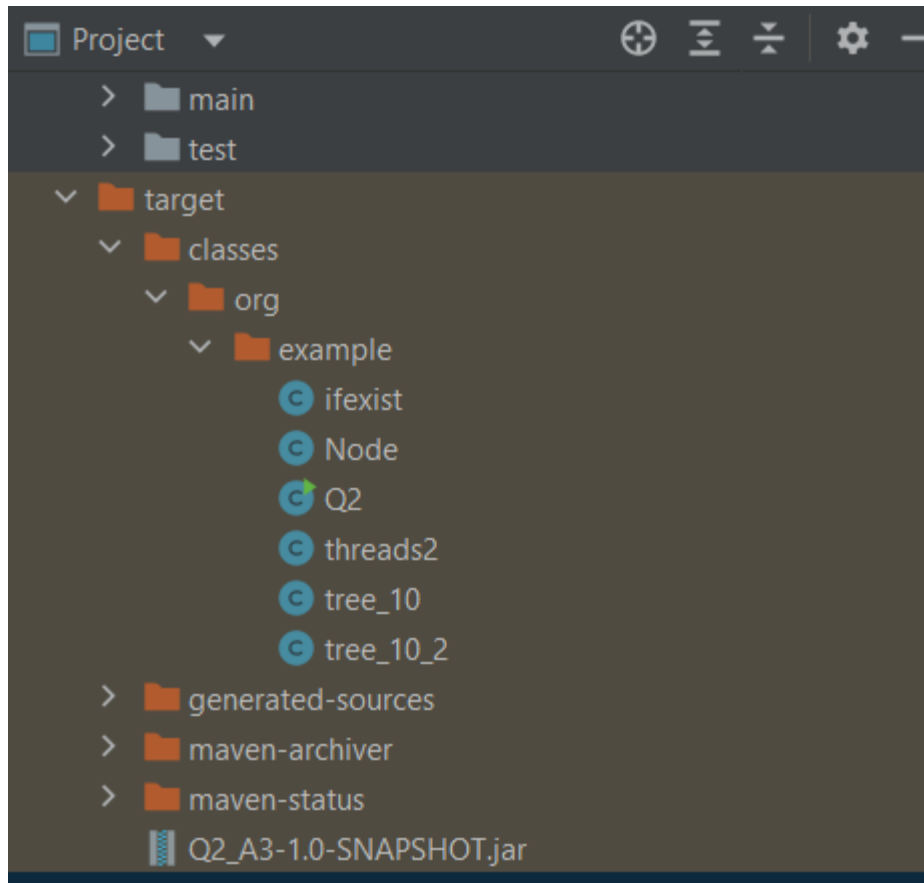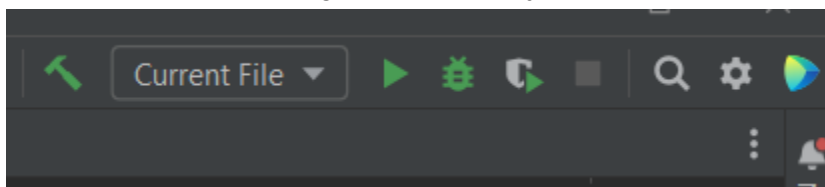> double right click on install
>Result of this should be like

> open on Q1.class

P.S. : Pardon screenshot is as per Q2

> click on run option in right side of intellij

> input : Give the length of the array

Results :

```
"C:\Program Files\Java\jdk-18.0.2.1\bin\java.exe" "-javaagent:C:\Program Files\JetBrains
Execution time (not-threading): 600nanoseconds
Execution time (threading): 542800 nanoseconds.
```

This is the result when array length is 1
The execution time of threaded is more due to overhead.

```
"C:\Program Files\Java\jdk-18.0.2.1\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA
Execution time (not-threading): 14600nanoseconds
Execution time (threading): 436400 nanoseconds.
```

This is the result when array length is 10
The execution time of threaded is more due to overhead.

```
"C:\Program Files\Java\jdk-18.0.2.1\bin\java.exe" "-javaagent:C:\Program Fil
Execution time (not-threading): 653200nanoseconds
Execution time (threading): 637300 nanoseconds.
```

This is the result when array length is 100
The execution time of threaded is less due to the compassion of overhead by parallelisation.

```
"C:\Program Files\Java\jdk-18.0.2.1\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA
Execution time (not-threading): 16 milliseconds
Execution time (threading): 0 milliseconds.
```

This is the result when array length is 1000
The execution time of threaded is less due to the compassion of overhead by parallelisation.

```
"C:\Program Files\Java\jdk-18.0.2.1\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\
Execution time (not-threading): 272 milliseconds
Execution time (threading): 73 milliseconds.


Process finished with exit code 0
```

This is the result when array length is 1000
The execution time of threaded is less due to the compassion of overhead by parallelisation.