

JAVA Assignment:

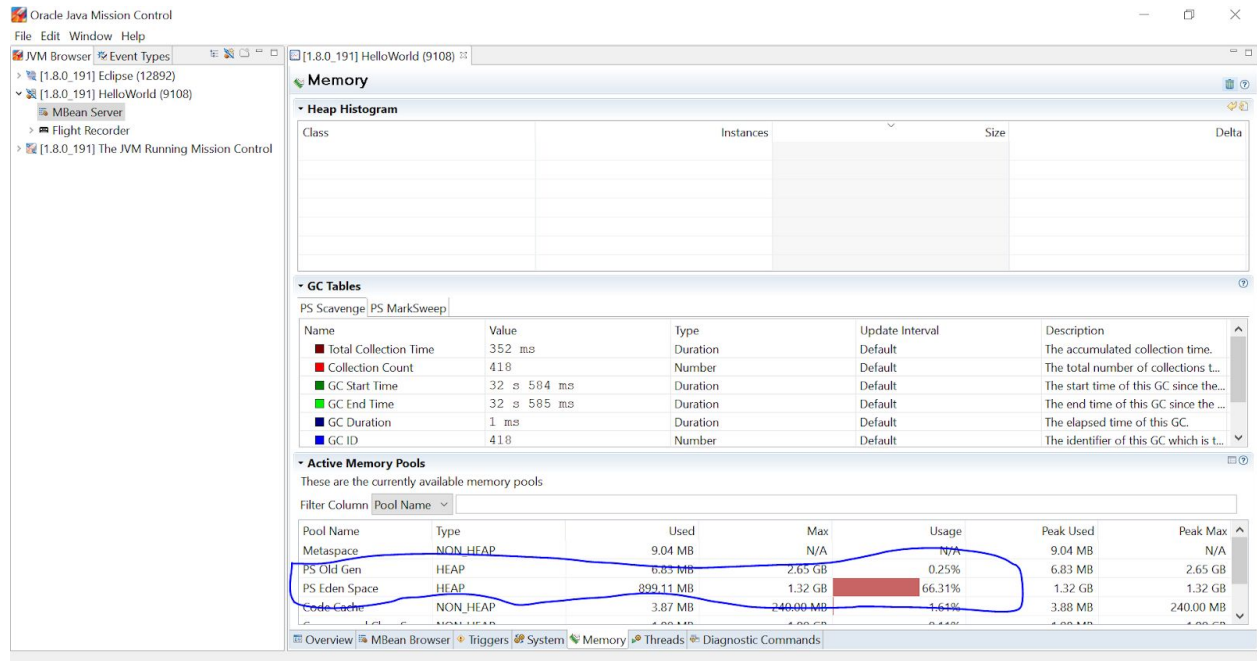
By:

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Assignment 1: (OutOfMemoryException)

Code:

```
public class HelloWorld {  
  
    public static void main(String[] args) {  
  
        System.out.println("Hello World!");  
  
        while(true) {  
            Double arr[] = new Double[10000000];  
        }  
    }  
}
```



Basic memory usage:

MetaSpace : 9 MB

Old generation : 6.8MB

Eden Space : 899.11 MB

Assignment 2: (Spring Web app)

Pom.xml:

```
<?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>
  <parent>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-parent</artifactId>
    <version>2.1.1.RELEASE</version>
```

```

        <relativePath/> <!-- lookup parent from repository -->
    </parent>
    <groupId>com.example</groupId>
    <artifactId>demo</artifactId>
    <version>0.0.1-SNAPSHOT</version>
    <name>demo</name>
    <description>Demo project for Spring Boot</description>

    <properties>
        <java.version>1.8</java.version>
    </properties>

    <dependencies>
        <dependency>
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-starter-web</artifactId>
        </dependency>

        <dependency>
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-starter-test</artifactId>
            <scope>test</scope>
        </dependency>
    </dependencies>

    <build>
        <plugins>
            <plugin>
                <groupId>org.springframework.boot</groupId>
                <artifactId>spring-boot-maven-plugin</artifactId>
            </plugin>
        </plugins>
    </build>
</project>

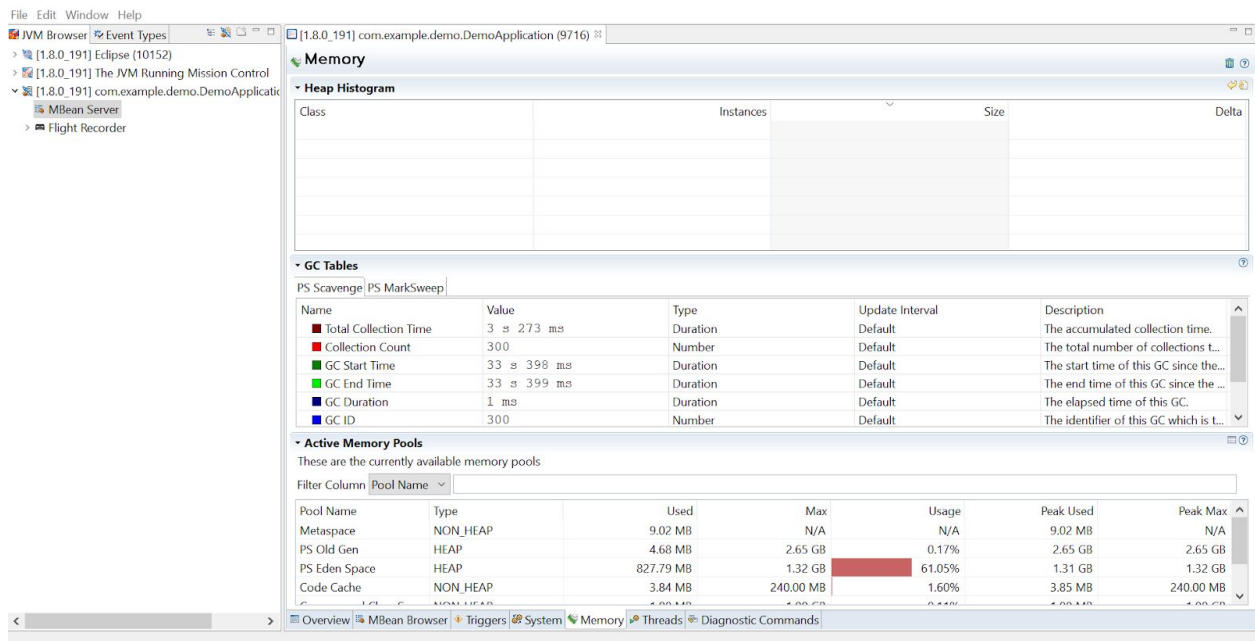
```

Output:

Changed memory usage :

@SpringBootApplication

```
public class DemoApplication {  
    @RequestMapping("/home")  
    String msg()  
    {  
        return "helloo";  
    }  
    public static void main(String[] args) {  
        for(int i=0;i<100000;i++)  
        {  
            Double arr[] = new Double[10000000];  
        }  
        SpringApplication.run(DemoApplication.class, args);  
    }  
}
```



Memory usage:

Metaspace : 9 MB

Old generation : 4.68 MB

Eden Space : 827 MB