

objects x Files

ExamUnit2

- Source Packages
 - ec.edu.espe.examunit2
 - model
 - A.java
 - B.java
 - C.java
 - D.java
 - E.java
 - F.java
 - G.java
 - H.java
 - J.java
 - view
 - ExamUnit2.java
 - Test Packages
 - Libraries
 - Test Libraries

main - Navigator

members

- ExamUnit2
 - ExamUnit2()
 - main(String[] args)

ExamUnit2.java x A.java x B.java x C.java x D.java x E.java x G.java x

Source History

```
1 package ec.edu.espe.examunit2.view;
2
3 import ec.edu.espe.examunit2.model.A;
4 import ec.edu.espe.examunit2.model.B;
5 import ec.edu.espe.examunit2.model.C;
6 import ec.edu.espe.examunit2.model.D;
7 import java.util.ArrayList;
8 import java.util.List;
9
10 /**
11  *
12  * @author Andres Jonathan J.
13  */
14 public class ExamUnit2 {
15     /**
16      * @param args the command line arguments
17      */
18     public static void main(String[] args) {
19         A a = new A();
20         a.addA(new A());
21
22         List<B> bs = new ArrayList<>();
23         bs.add(new B());
24
25         C cs[] = new C[]{ new C(), new C(), new C() };
26         D ds[] = new D[]{ new D(), new D(), new D(), new D() };
27
28     }
29 }
```

Files

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Navigator

rs

<empty>

A

A0

addA(A a)

toString(): String ↑ Object

as: List<A>

ExamUnit2.java x A.java x B.java x C.java x D.java x

Source History

```
1 package ec.edu.espe.examunit2.model;
2
3 import java.util.ArrayList;
4 import java.util.List;
5
6 /**
7  *
8  * @author Andres Jonathan J.
9  */
10 public class A {
11     private List<A> as = new ArrayList<>();
12
13     public A() {
14         System.out.println("A::A()");
15     }
16
17     public void addA(A a) {
18         as.add(a);
19     }
20
21     @Override
22     public String toString() {
23         return "A{" + "as=" + as + '}';
24     }
25 }
26
```

Projects x Files

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B - Navigator x

Members

B :: A

- B()
- toString(): String ↑ A
- hs: List<H>

Source History

```
1 package ec.edu.espe.examunit2.model;
2
3 import java.util.ArrayList;
4 import java.util.List;
5
6 /**
7  *
8  * @author Andres Jonathan J.
9  */
10 public class B extends A {
11     private final List<H> hs = new ArrayList<>();
12
13     public B() {
14         System.out.println("B::B()");
15         hs.add(new G(new J()));
16     }
17
18     @Override
19     public String toString() {
20         return "B{" + '}';
21     }
22 }
23
```

Projects × Files

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C - Navigator ×

Members

<empty>

C :: A

- C()
- getEs() : List<E>
- setEs(List<E> es)
- toString() : String ↑ A
- es : List<E>

ExamUnit2.java × A.java × B.java × C.java × D.java ×

Source History

```
1 package ec.edu.espe.examunit2.model;
2
3 import java.util.ArrayList;
4 import java.util.List;
5
6 /**
7  *
8  * @author Andres Jonathan J.
9  */
10 public class C extends A {
11     private List<E> es = new ArrayList<>();
12
13     public C() {
14         System.out.println("C::C()");
15         es.add(new E());
16     }
17
18     public List<E> getEs() {
19         return es;
20     }
21
22     public void setEs(List<E> es) {
23         this.es = es;
24     }
25
26     @Override
27     public String toString() {
28         return "C{" + '}';
29     }
30 }
```

ExamUnit2

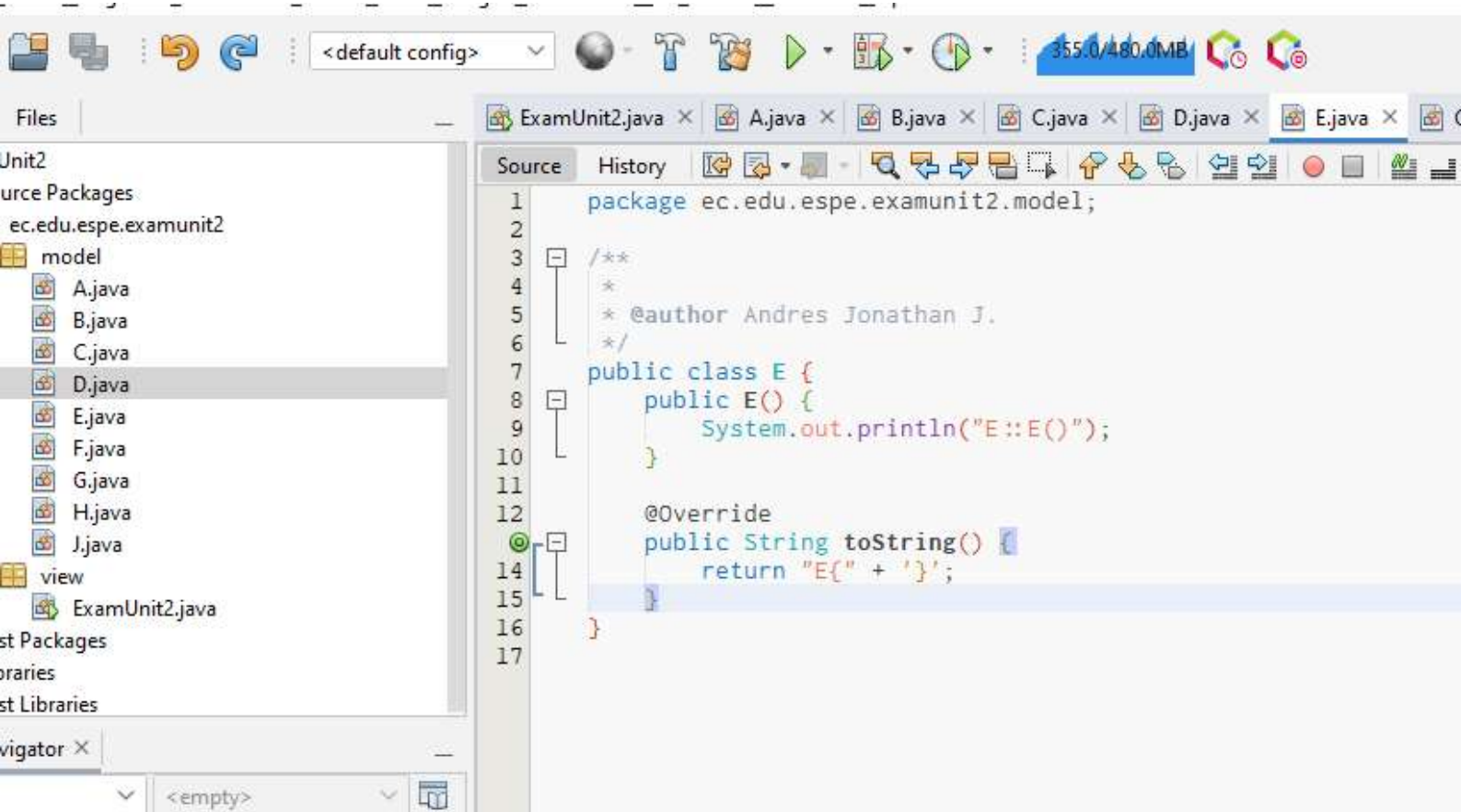
- Source Packages
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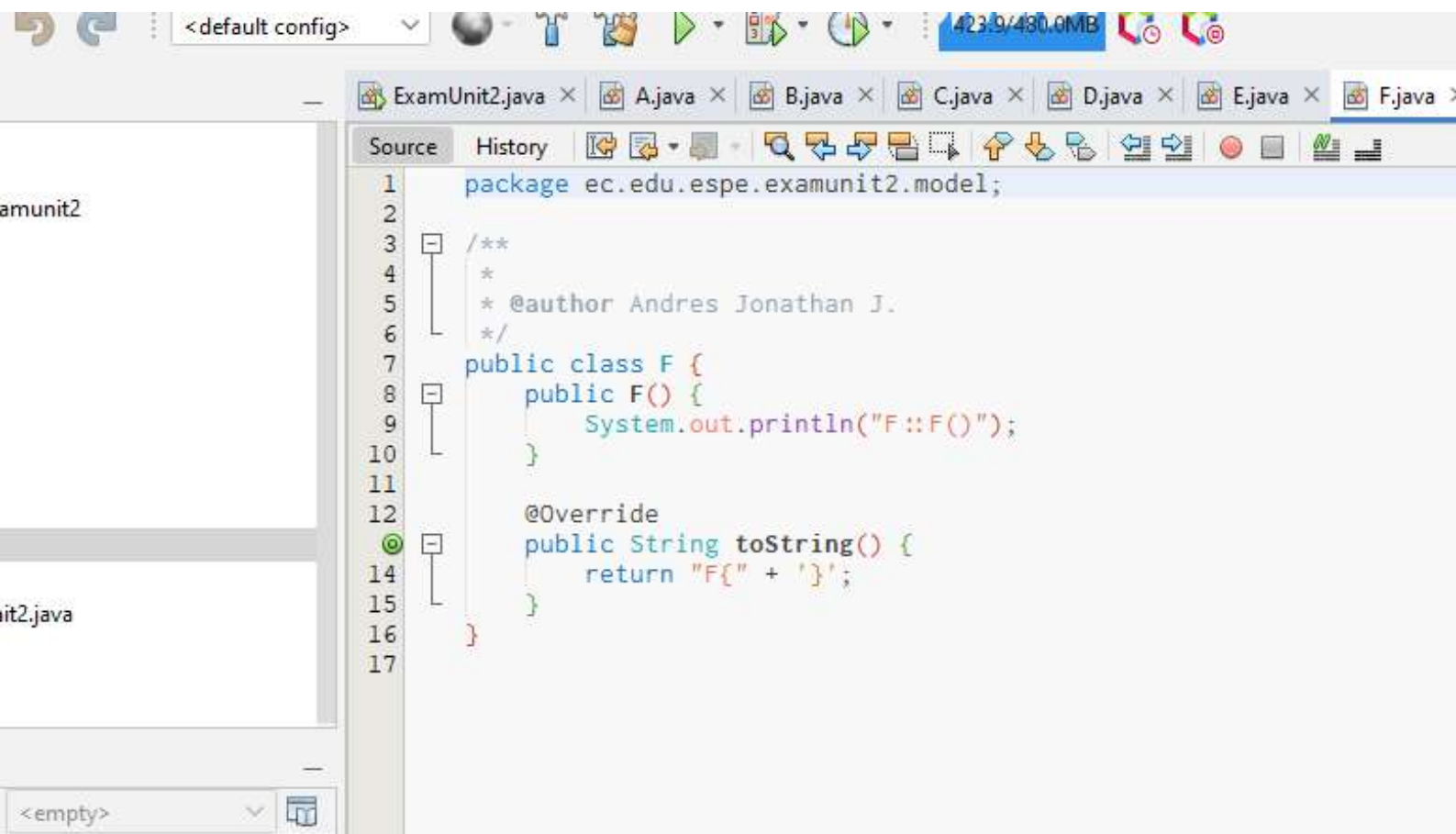
Navigator

Members

- D :: A
- D()
- es : E[]
- fs : List<F>

```
1 package ec.edu.espe.examunit2.model;
2
3 import java.util.ArrayList;
4 import java.util.List;
5
6 /**
7  *
8  * @author Andres Jonathan J.
9  */
10 public class D extends A {
11     private List<F> fs = new ArrayList<>();
12     private E es[] = new E[5];
13
14     public D() {
15         System.out.println("D :: D()");
16         fs.add(new F());
17
18         es[0] = new E();
19         es[1] = new E();
20         es[2] = new E();
21         es[3] = new E();
22         es[4] = new E();
23     }
24 }
25
```



ExamUnit2 - Apache NetBeans IDE 12.0

Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

< default config > 257.7/480.5MB

ExamUnit2 A.java B.java C.java D.java E.java F.java G.java

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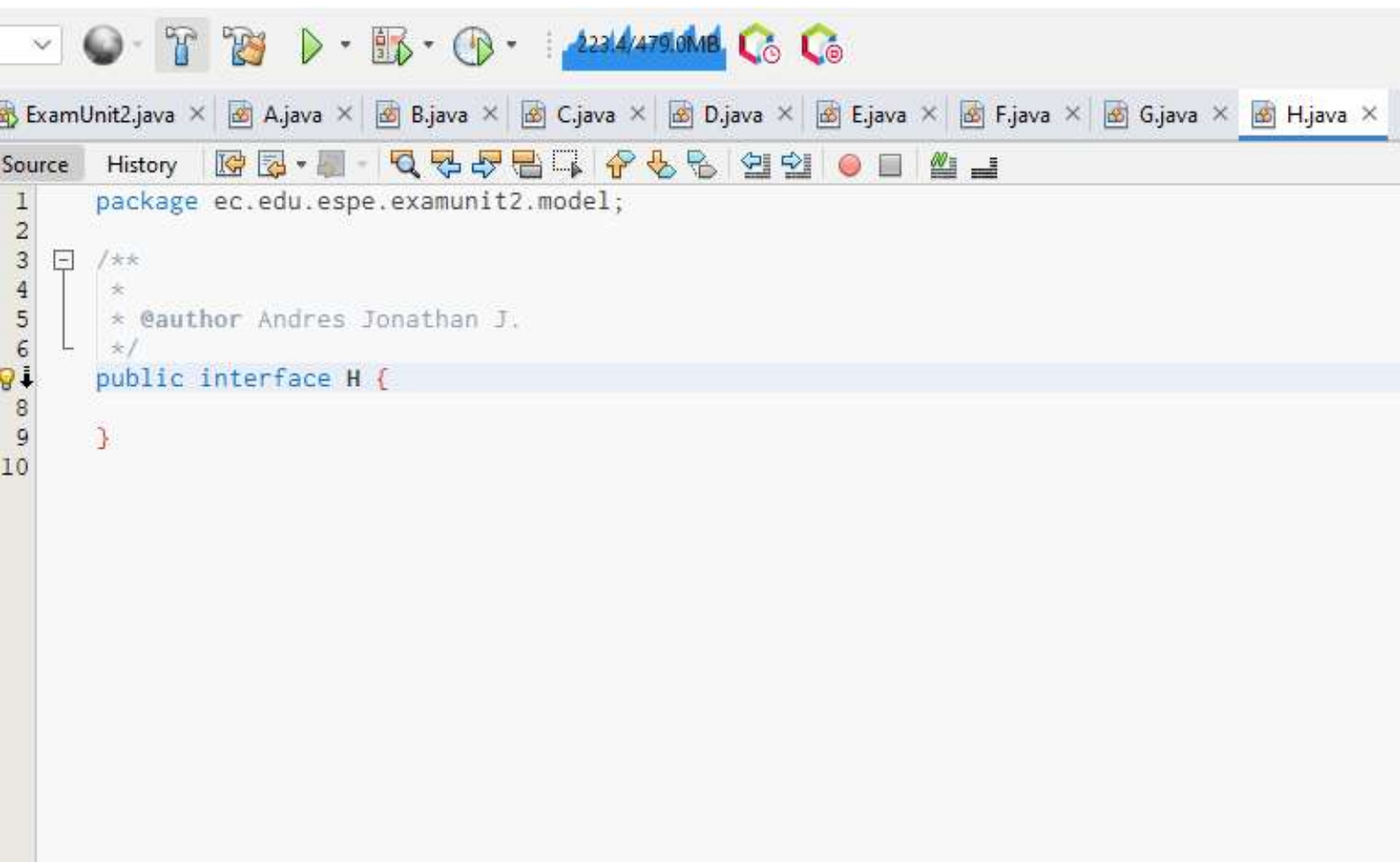
view
ExamUnit2.java

Test Packages
Libraries
Test Libraries

Navigator

Members
G :: H
G(j)
toString() : String ↑ Object

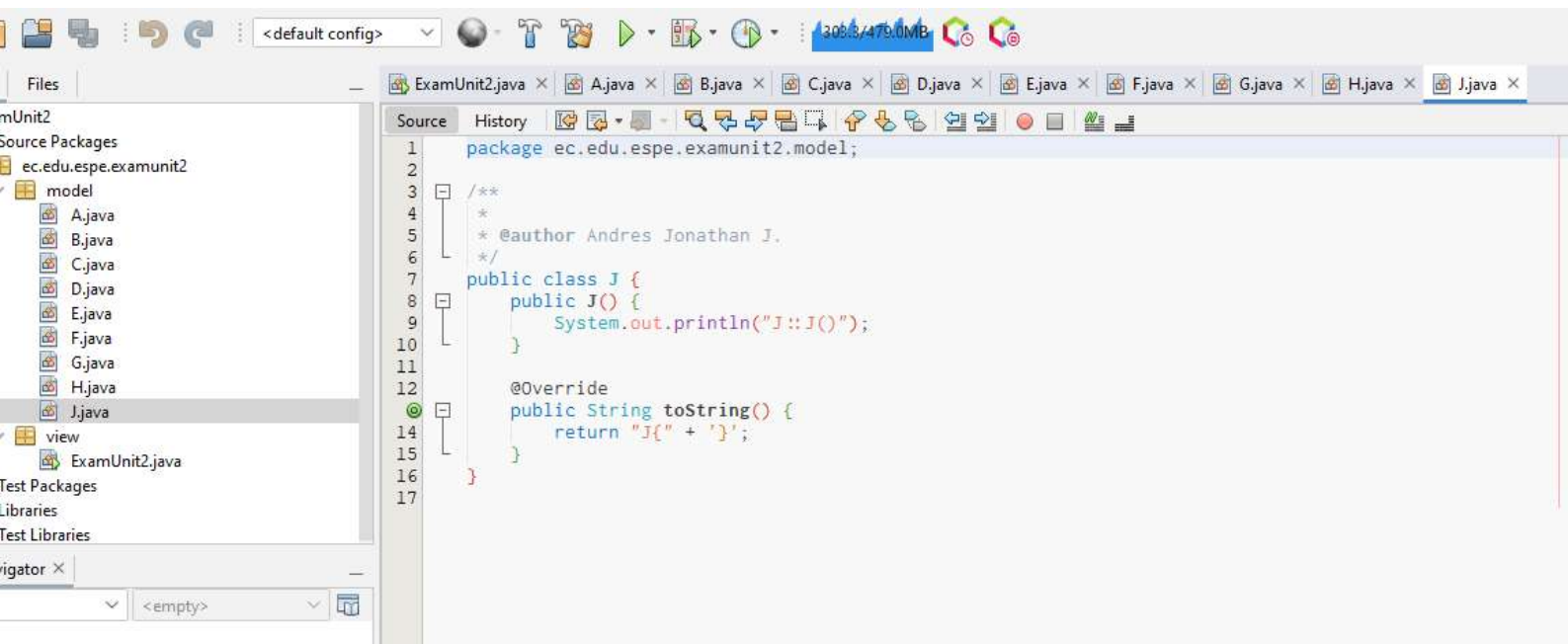
```
Source History  
1 package ec.edu.espe.examunit2.model;  
2  
3 /**  
4  *  
5  * @author Andres Jonathan J.  
6  */  
7 public class G implements H {  
8     public G(J j) {  
9         System.out.println("G::G(" + j + ")");  
10    }  
11  
12    @Override  
13    public String toString() {  
14        return "G{" + '}'  
15    }  
16 }  
17
```

The screenshot shows an IDE window with the following elements:

- Toolbar:** Includes icons for a dropdown menu, a sphere, a hammer, a wrench, a play button, a document with a play button, a clock, and a memory usage indicator showing 223.4/479.0MB. There are also two circular icons with arrows.
- Tab Bar:** Displays several open files: ExamUnit2.java, A.java, B.java, C.java, D.java, E.java, F.java, G.java, and H.java. H.java is the active tab.
- Source Editor:** Contains the following Java code:

```
1 package ec.edu.espe.examunit2.model;
2
3 /**
4  *
5  * @author Andres Jonathan J.
6  */
7 public interface H {
8
9 }
10
```
- Left Margin:** Shows line numbers 1 through 10. A small icon is visible next to line 3.



Output - ExamUnit2 (run)

A::A()
C::C()
E::E()
A::A()
D::D()
F::F()
E::E()
E::E()
E::E()
E::E()
E::E()
A::A()
D::D()
F::F()
E::E()
E::E()
E::E()
E::E()
A::A()
D::D()
F::F()
E::E()
E::E()
E::E()
E::E()
A::A()
D::D()
F::F()
E::E()
E::E()
E::E()
A::A()
D::D()
F::F()
E::E()
E::E()
E::E()
E::E()
BUILD SUCCESSFUL (total time: 10 seconds)