

# Debugger

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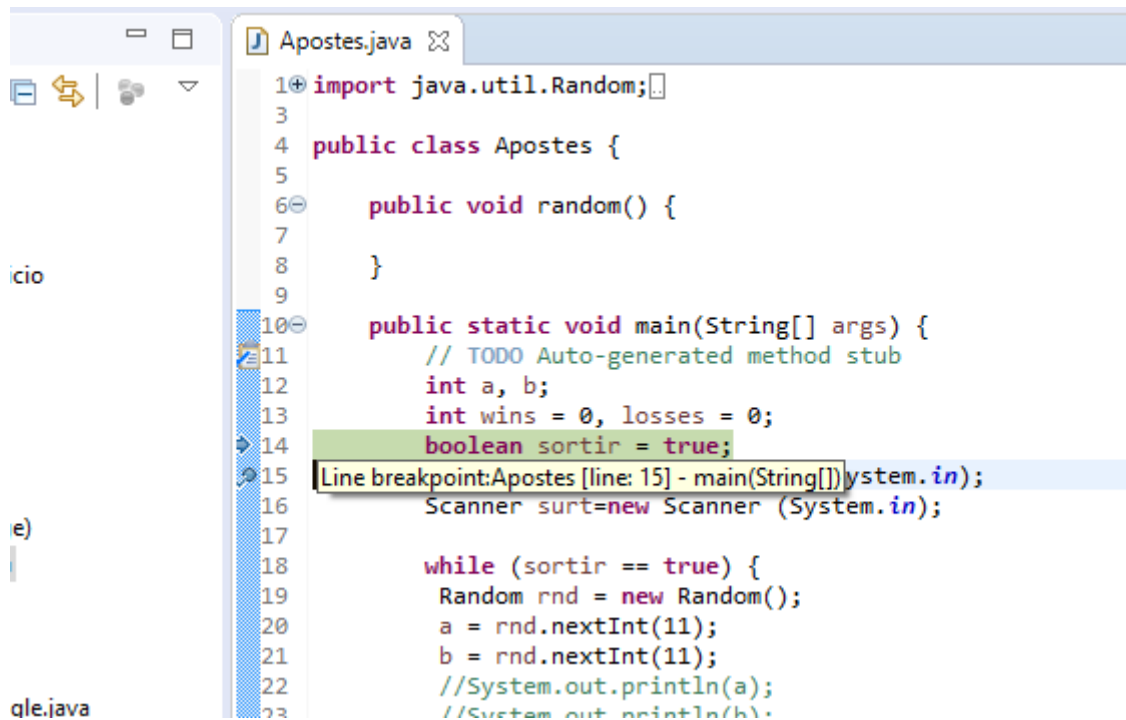
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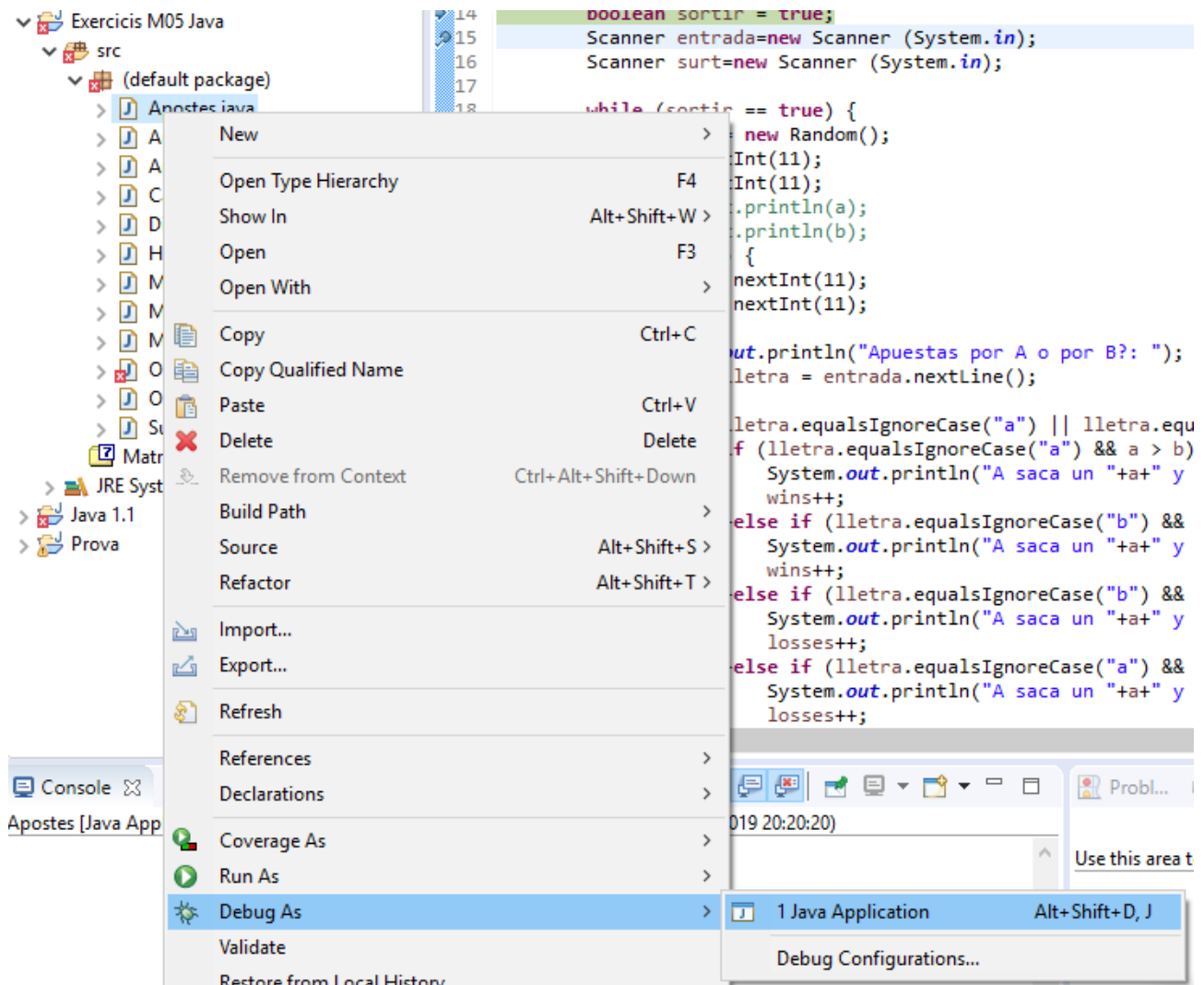
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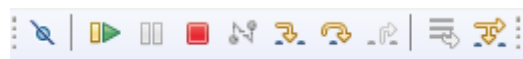
## Posar un Breakpoint



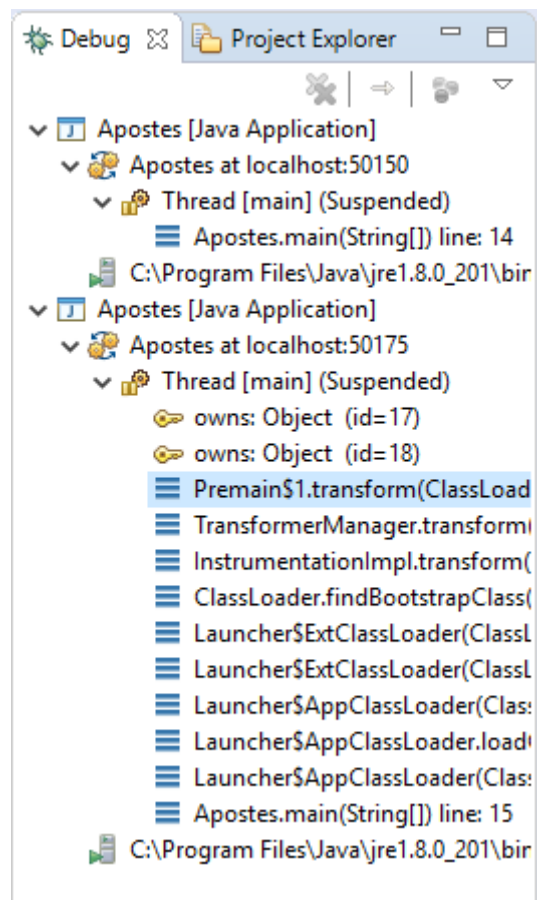
## Arrancar el programa en moda debugger



## Botons per anar pas a pas



## La pila de trucades



## Visualitzar i modificar variables

The screenshot shows an IDE with a Java file named `Apostes.java` open. The code is as follows:

```
1 import java.util.Random;
2
3
4 public class Apostes {
5
6     public void random() {
7
8     }
9
10    public static void main(String[] args) {
11        // TODO Auto-generated method stub
12        int a, b;
13        int wins = 0, losses = 0;
14        boolean sortir = true;
15        Scanner entrada = new Scanner(System.in);
16        Scanner surt = new Scanner(System.in);
17
18        while (sortir == true) {
19            Random rnd = new Random();
20            a = rnd.nextInt(11);
21            b = rnd.nextInt(11);
22            //System.out.println(a);
23            //System.out.println(b);
24            if (a == b) {
25                a = rnd.nextInt(11);
26                b = rnd.nextInt(11);
27            } else {
28                System.out.println("Apuestas por A o por B?: ");
29                String lletra = entrada.nextLine();
30
31                if (lletra.equalsIgnoreCase("a") || lletra.equalsIgnoreCase("b")) {
32                    if (lletra.equalsIgnoreCase("a") && a > b) {
33                        System.out.println("A saca un "+a+" y B un "+b);
34                    } else {
35                        System.out.println("B saca un "+b+" y A un "+a);
36                    }
37                } else {
38                    System.out.println("Error. Solo se permiten A o B.");
39                }
40            }
41        }
42    }
43 }
```

The Variables window on the right shows the following variables and their values:

Na...	Value
String[0] (id=36)	1
10	10
0	0
0	0
true	true
Scanner (id=22)	
Scanner (id=32)	
Random (id=35)	

## Breakpoints condicionals

The screenshot shows the Breakpoints window in an IDE. It contains a list of breakpoints with checkboxes next to them:

- ☒ Others (no working set)
- ☒ Apostes [line: 13] - main(String[])
- ☒ Apostes [line: 15] - main(String[])
- ☒ Apostes [line: 48] - main(String[])
- ☒ Matrius [line: 22] - main(String[])

```

public class Apostes {

    public void random() {

    }

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int a, b;
        int wins = 0, losses = 0;
        boolean sortir = true;
        Scanner entrada=new Scanner (System.in);
        Scanner surt=new Scanner (System.in);

        while (sortir == true) {
            Random rnd = new Random();
            a = rnd.nextInt(11);
            b = rnd.nextInt(11);
            //System.out.println(a);
            //System.out.println(b);
            if (a == b) {
                a = rnd.nextInt(11);
                b = rnd.nextInt(11);
            }else {
                System.out.println("Apuestas por A o por B?: ");
                String lletra = entrada.nextLine();

                if (lletra.equalsIgnoreCase("a") || lletra.equalsIgnoreCase("b")) {
                    if (lletra.equalsIgnoreCase("a") && a > b) {
                        System.out.println("A saca un "+a+" y B un "+b+" ;Has ganado!");
                        wins++;
                    }else if (lletra.equalsIgnoreCase("b") && b > a) {
                        System.out.println("A saca un "+a+" y B un "+b+" ;Has ganado!");
                        wins++;
                    }else if (lletra.equalsIgnoreCase("b") && b < a) {
                        System.out.println("A saca un "+a+" y B un "+b+" ;Has perdido!");
                        losses++;
                    }else if (lletra.equalsIgnoreCase("a") && a < b) {
                        System.out.println("A saca un "+a+" y B un "+b+" ;Has perdido!");
                        losses++;
                    }
                }
            }
        }
    }
}

```

- ☒ Others (no working set)
  - ☒ Apostes [line: 13] - main(String[])
  - ☒ Apostes [line: 15] - main(String[])
  - ☒ Apostes [line: 18] - main(String[])
  - ☒ Apostes [line: 20] - main(String[])
  - ☒ Apostes [line: 48] - main(String[])
  - ☒ Matrius [line: 22] - main(String[])

☐ Trigger Point  
☐ Hit count:  ☒ Suspend thread ☐ Suspend VM  
☒ Conditional ☒ Suspend when 'true' ☐ Suspend when value changes  
 <Choose a previously entered condition>

sortir == false

```

import java.util.Random;

public class Apostes {

    public void random() {

    }

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int a, b;
        int wins = 0, losses = 0;
        boolean sortir = true;
        Scanner entrada=new Scanner (System.in);
        Scanner surt=new Scanner (System.in);

        while (sortir == true) {
            Random rnd = new Random();
            a = rnd.nextInt(11);
            b = rnd.nextInt(11);
            //System.out.println(a);
            //System.out.println(b);
            if (a == b) {
                a = rnd.nextInt(11);
                b = rnd.nextInt(11);
            }else {
                System.out.println("Apuestas por A o por B?: ");
                String lletra = entrada.nextLine();

                if (lletra.equalsIgnoreCase("a") || lletra.equalsIgnoreCase("b")) {
                    if (lletra.equalsIgnoreCase("a") && a > b) {
                        System.out.println("A saca un "+a+" y B un "+b+" ;Has ganado!");
                        wins++;
                    }else if (lletra.equalsIgnoreCase("b") && b > a) {
                        System.out.println("A saca un "+a+" y B un "+b+" ;Has ganado!");
                        wins++;
                    }else if (lletra.equalsIgnoreCase("b") && b < a) {
                        System.out.println("A saca un "+a+" y B un "+b+" ;Has perdido!");
                        losses++;
                    }else if (lletra.equalsIgnoreCase("a") && a < b) {
                        System.out.println("A saca un "+a+" y B un "+b+" ;Has perdido!");
                        losses++;
                    }
                }
            }
        }
    }
}

```

- ☒ Others (no working set)
  - ☒ Apostes [line: 13] - main(String[])
  - ☒ Apostes [line: 15] - main(String[])
  - ☒ Apostes [line: 18] [conditional] - main(String[])
  - ☒ Apostes [line: 20] - main(String[])
  - ☒ Apostes [line: 48] - main(String[])
  - ☒ Matrius [line: 22] - main(String[])

☐ Trigger Point  
☐ Hit count:  ☒ Suspend thread ☐ Suspend VM  
☒ Conditional ☒ Suspend when 'true' ☐ Suspend when va  
 <Choose a previously entered condition>

sortir == false