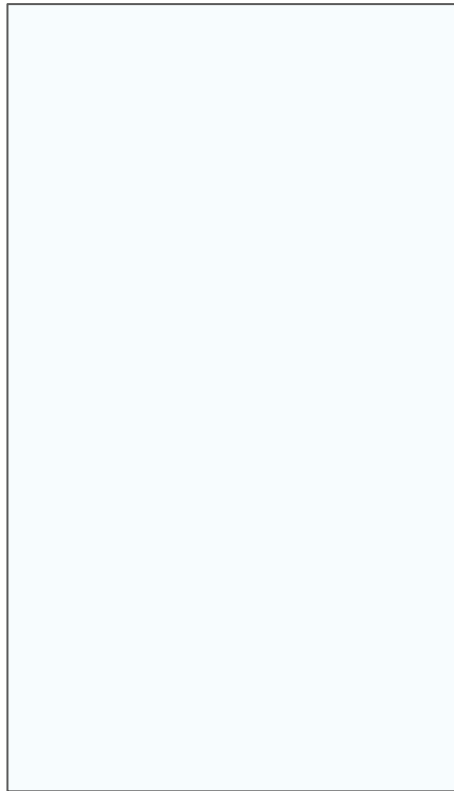
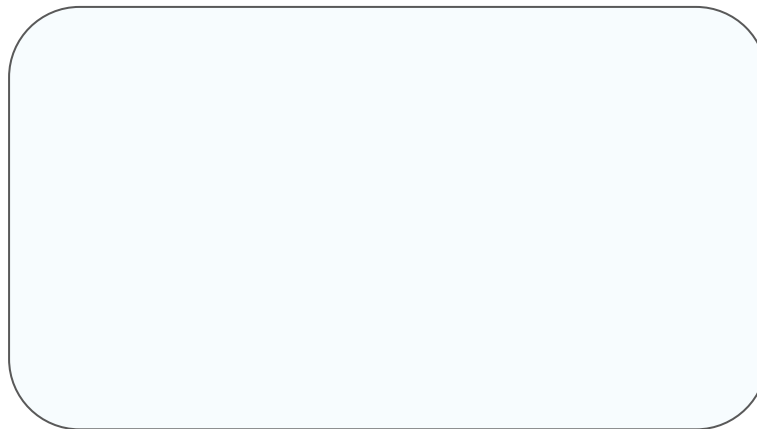


Области памяти

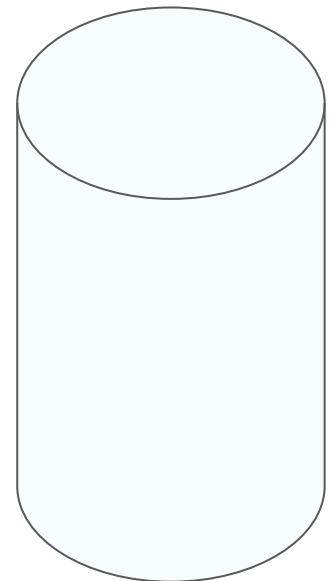
```
public class JvmComprehension {  
  
    public static void main(String[] args) {  
        int i = 1; // 1  
        Object o = new Object(); // 2  
        Integer ii = 2; // 3  
        printAll(o, i, ii); // 4  
        System.out.println("finished"); // 7  
    }  
  
    private static void printAll(Object o, int i, Integer ii) {  
        Integer uselessVar = 700; // 5  
        System.out.println(o.toString() + i + ii); // 6  
    }  
}
```



Stack Memory



heap (куча)



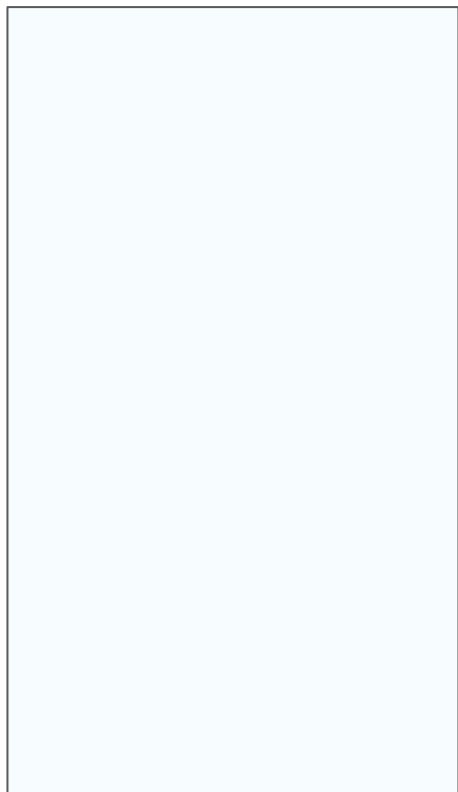
Metaspace

Области памяти

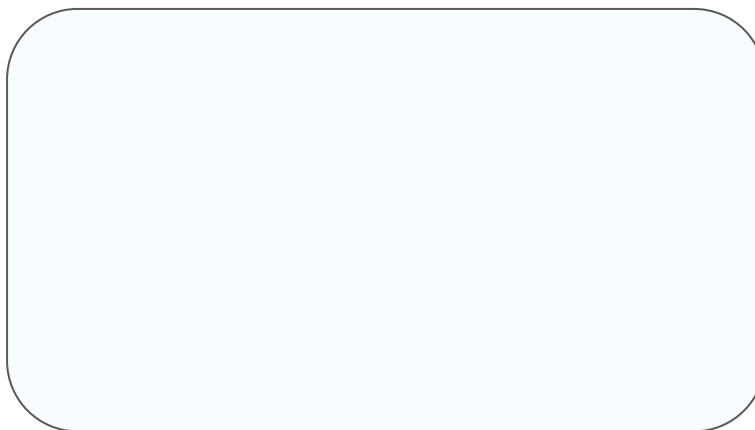
```
public class JvmComprehension {
```

```
    public static void main(String[] args) {  
        int i = 1; // 1  
        Object o = new Object(); // 2  
        Integer ii = 2; // 3  
        printAll(o, i, ii); // 4  
        System.out.println("finished"); // 7  
    }
```

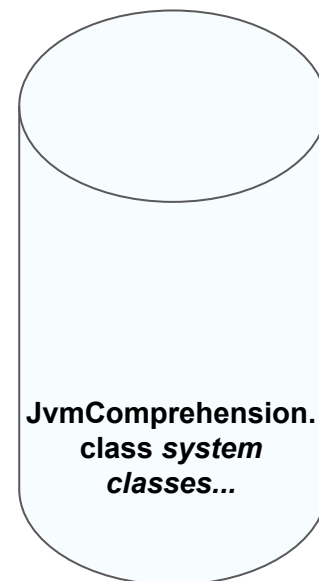
```
    private static void printAll(Object o, int i, Integer ii) {  
        Integer uselessVar = 700; // 5  
        System.out.println(o.toString() + i + ii); // 6  
    }  
}
```



Stack Memory



heap (куча)



Metaspace

Области памяти

```
public class JvmComprehension {
```

```
    public static void main(String[] args) {
```

```
        int i = 1; // 1
```

```
        Object o = new Object(); // 2
```

```
        Integer ii = 2; // 3
```

```
        printAll(o, i, ii); // 4
```

```
        System.out.println("finished"); // 7
```

```
    }
```

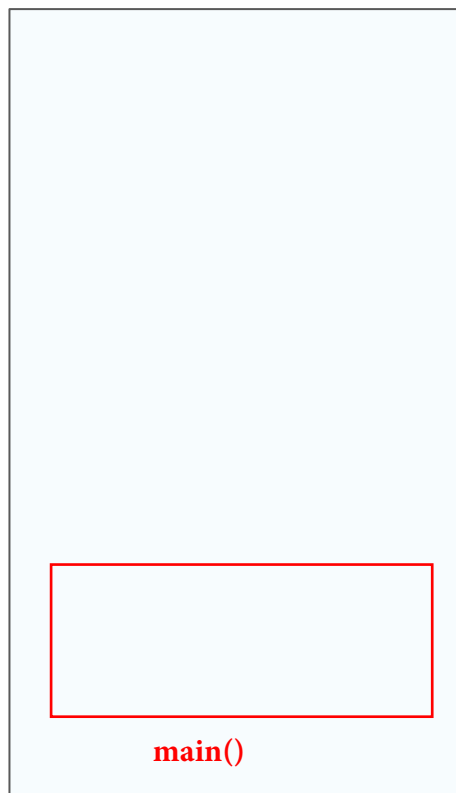
```
    private static void printAll(Object o, int i, Integer ii) {
```

```
        Integer uselessVar = 700; // 5
```

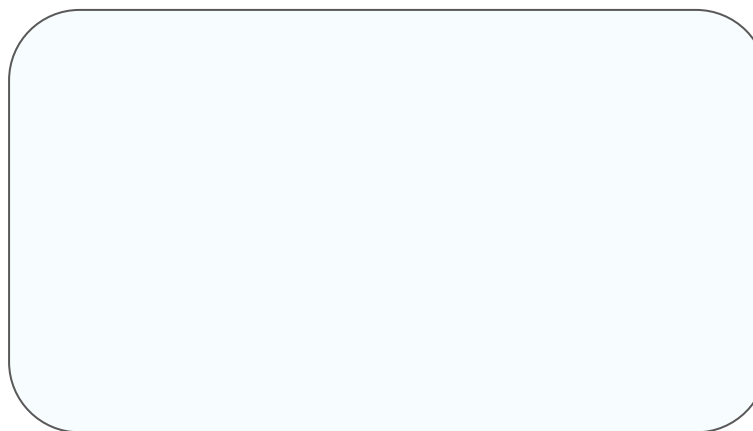
```
        System.out.println(o.toString() + i + ii); // 6
```

```
    }
```

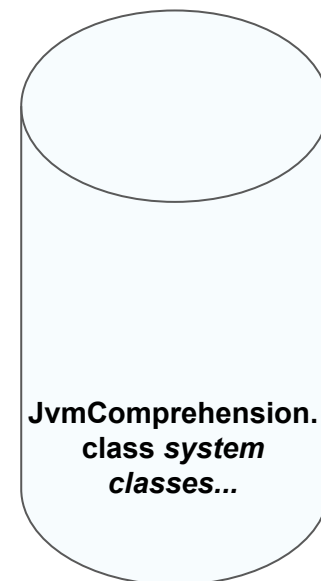
```
}
```



Stack Memory



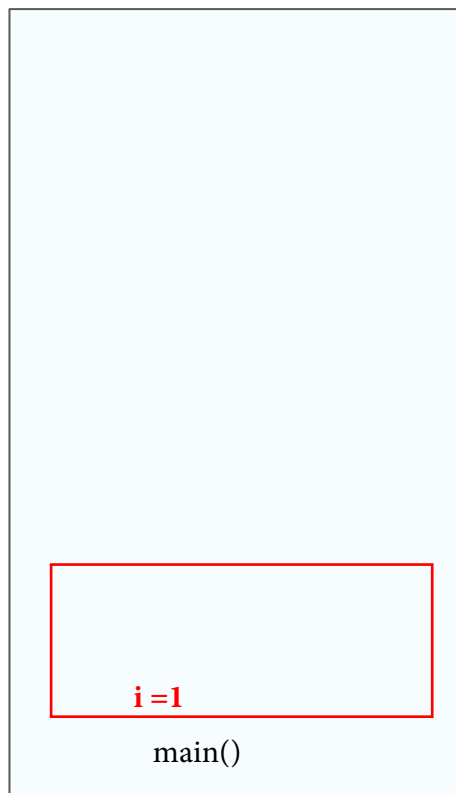
heap (куча)



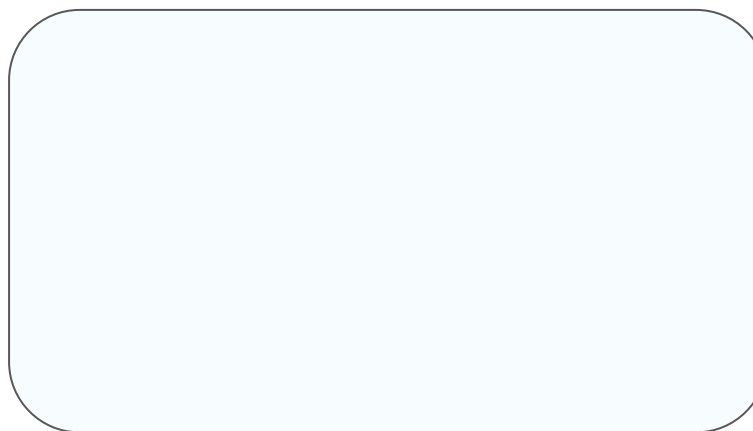
Metaspace

Области памяти

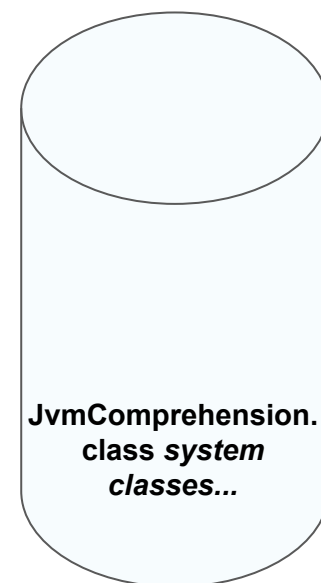
```
public class JvmComprehension {  
    public static void main(String[] args) {  
        int i = 1; // 1  
        Object o = new Object(); // 2  
        Integer ii = 2; // 3  
        printAll(o, i, ii); // 4  
        System.out.println("finished"); // 7  
    }  
  
    private static void printAll(Object o, int i, Integer ii) {  
        Integer uselessVar = 700; // 5  
        System.out.println(o.toString() + i + ii); // 6  
    }  
}
```



Stack Memory



heap (куча)



Metaspace

Области памяти

```
public class JvmComprehension {
```

```
    public static void main(String[] args) {
```

```
        int i = 1;
```

```
        Object o = new Object();
```

```
        Integer ii = 2;
```

```
        printAll(o, i, ii);
```

```
        System.out.println("finished");
```

```
    }
```

```
    private static void printAll(Object o, int i, Integer ii) {
```

```
        Integer uselessVar = 700;
```

```
        System.out.println(o.toString() + i + ii);
```

```
    }
```

```
}
```

```
// 1
```

```
// 2
```

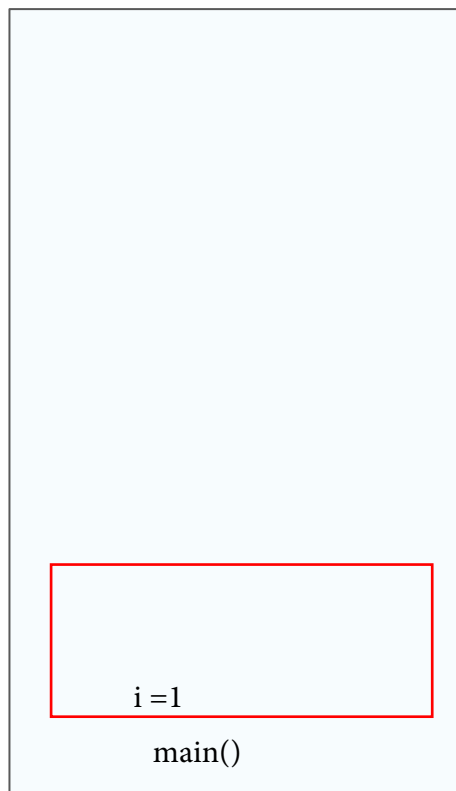
```
// 3
```

```
// 4
```

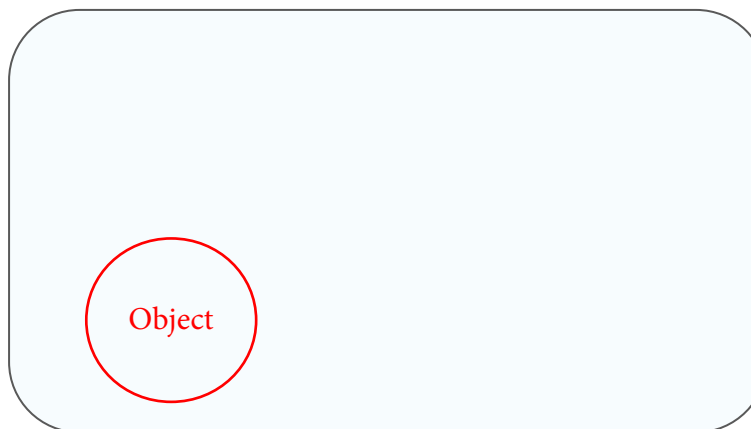
```
// 7
```

```
// 5
```

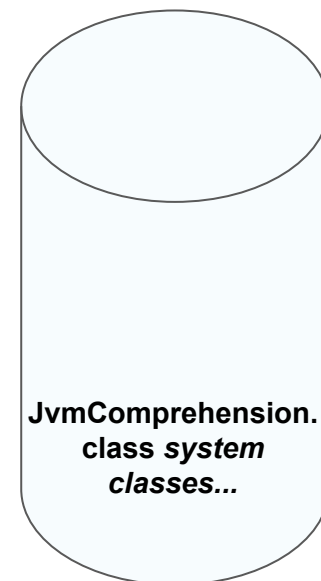
```
// 6
```



Stack Memory



heap (куча)



Metaspace

Области памяти

```
public class JvmComprehension {
```

```
    public static void main(String[] args) {
```

```
        int i = 1;
```

```
        Object o = new Object();
```

```
        Integer ii = 2;
```

```
        printAll(o, i, ii);
```

```
        System.out.println("finished");
```

```
    }
```

```
// 1
```

```
// 2
```

```
// 3
```

```
// 4
```

```
// 7
```

```
    private static void printAll(Object o, int i, Integer ii) {
```

```
        Integer uselessVar = 700;
```

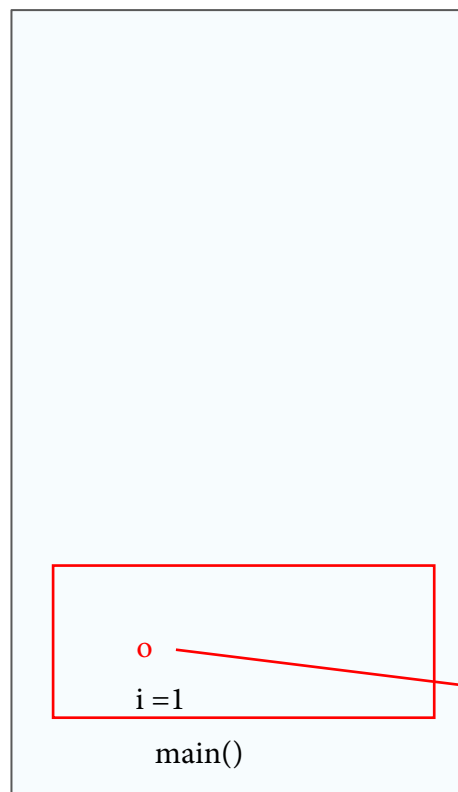
```
        System.out.println(o.toString() + i + ii);
```

```
    }
```

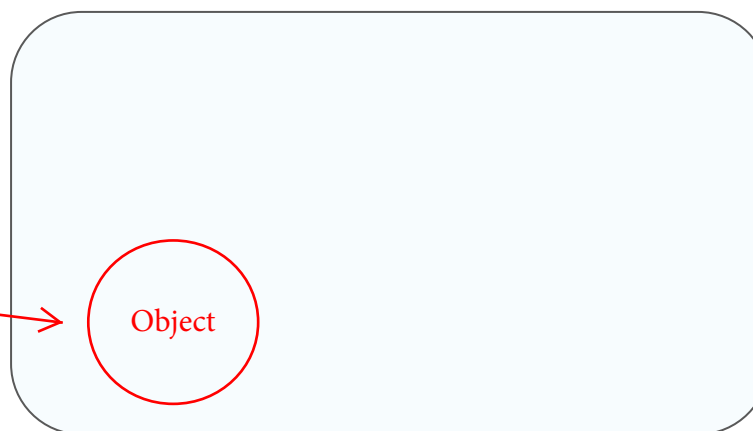
```
// 5
```

```
// 6
```

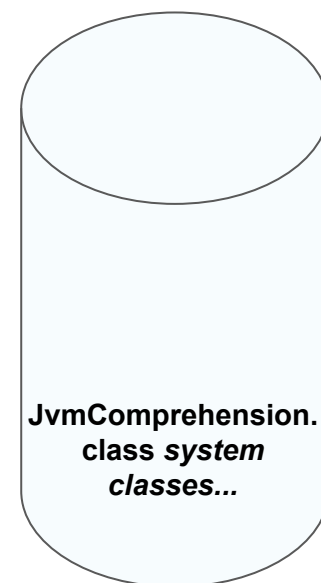
```
}
```



Stack Memory



heap (куча)



Metaspace

Области памяти

```
public class JvmComprehension {
```

```
    public static void main(String[] args) {
```

```
        int i = 1;
```

```
// 1
```

```
        Object o = new Object();
```

```
// 2
```

```
        Integer ii = 2;
```

```
// 3
```

```
        printAll(o, i, ii);
```

```
// 4
```

```
        System.out.println("finished");
```

```
// 7
```

```
    }
```

```
    private static void printAll(Object o, int i, Integer ii) {
```

```
        Integer uselessVar = 700;
```

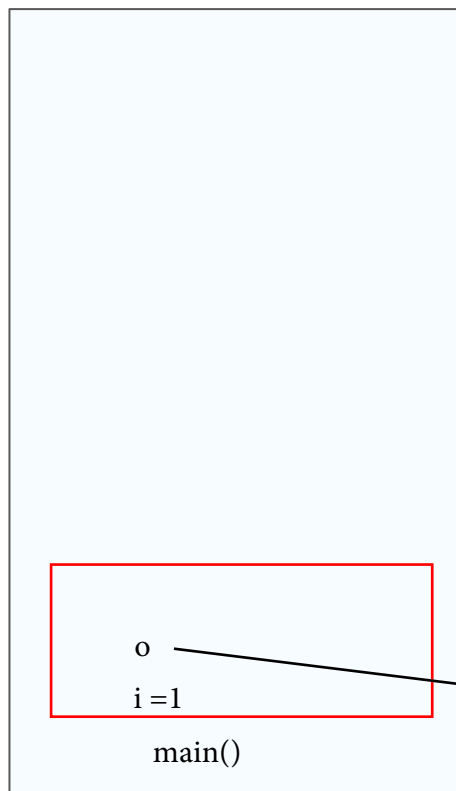
```
// 5
```

```
        System.out.println(o.toString() + i + ii);
```

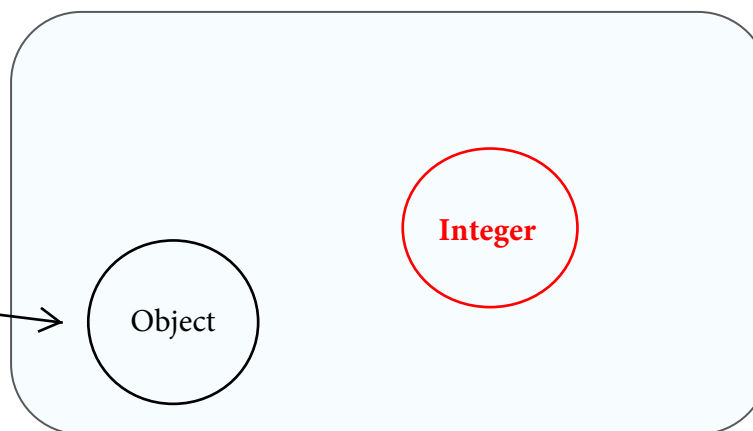
```
// 6
```

```
    }
```

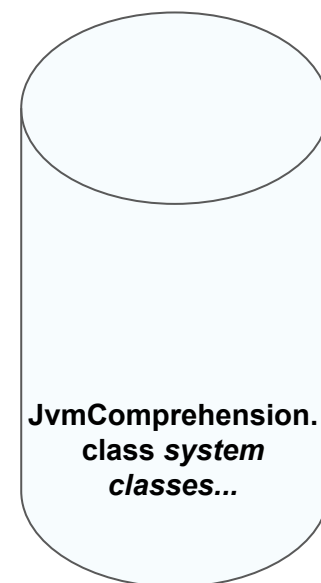
```
}
```



Stack Memory



heap (куча)



Metaspace

Области памяти

```
public class JvmComprehension {
```

```
    public static void main(String[] args) {
```

```
        int i = 1;
```

```
        Object o = new Object();
```

```
        Integer ii = 2;
```

```
        printAll(o, i, ii);
```

```
        System.out.println("finished");
```

```
    }
```

```
// 1
```

```
// 2
```

```
// 3
```

```
// 4
```

```
// 7
```

```
    private static void printAll(Object o, int i, Integer ii) {
```

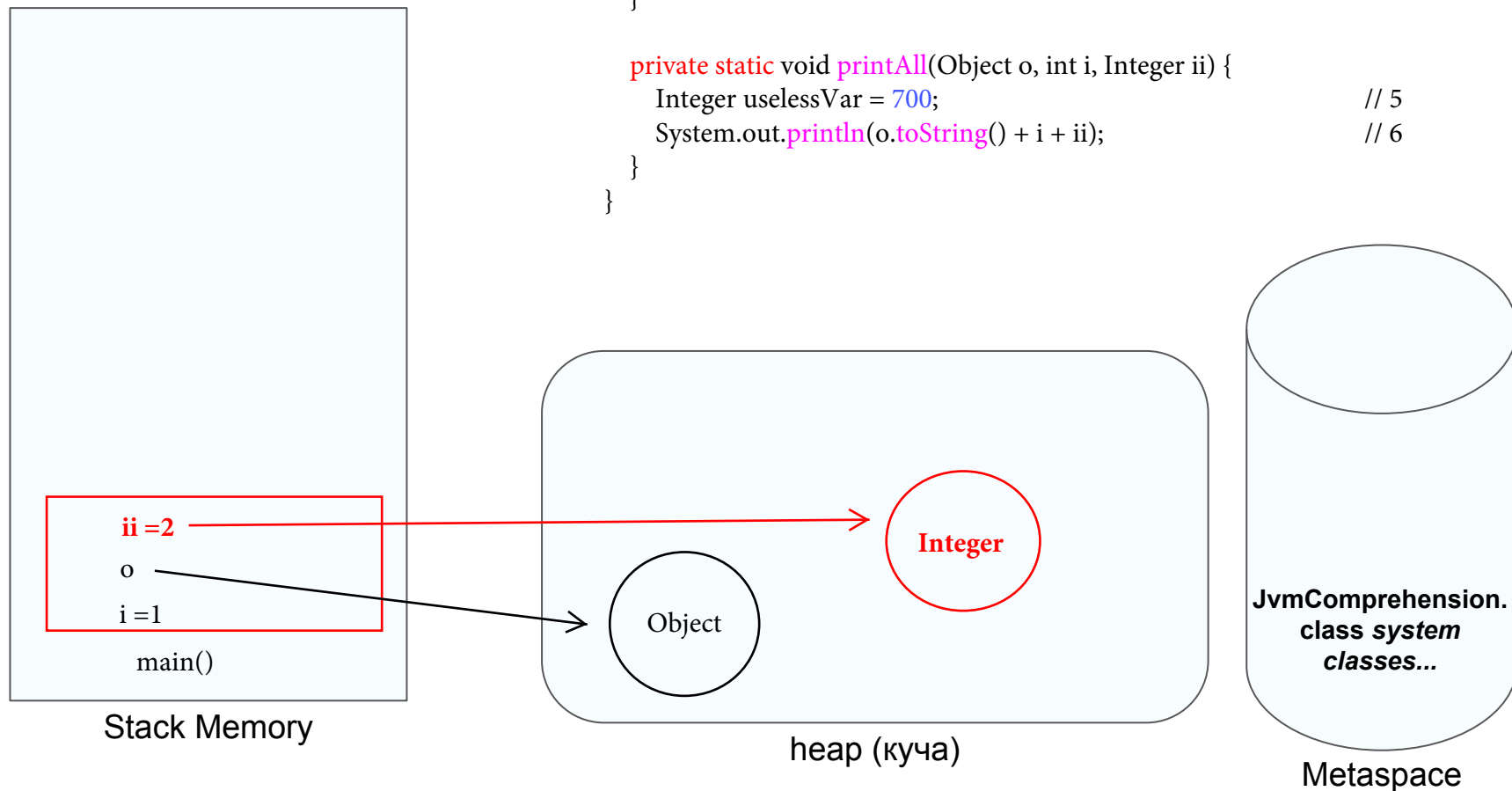
```
        Integer uselessVar = 700;
```

```
        System.out.println(o.toString() + i + ii);
```

```
    }
```

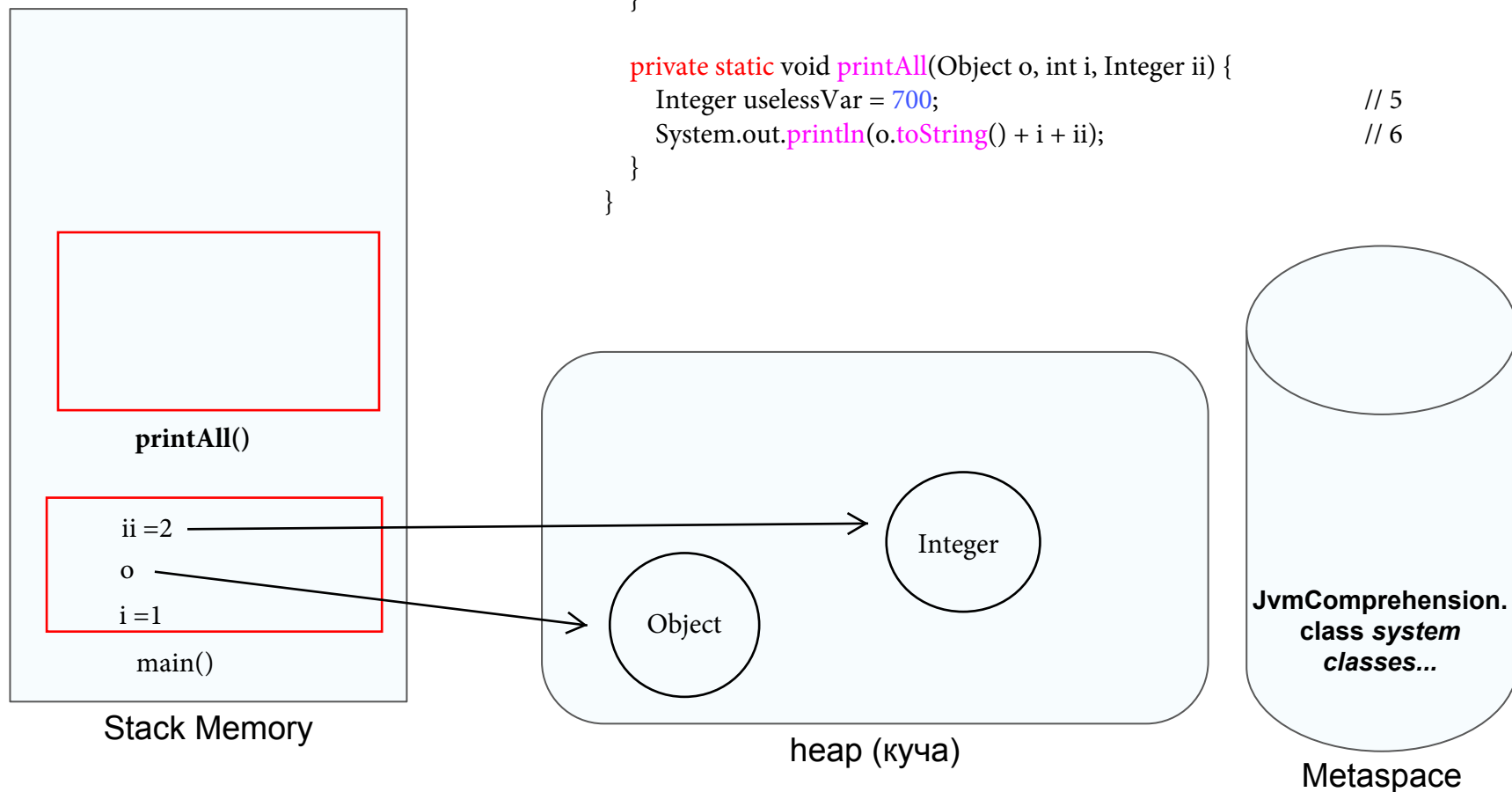
```
// 5
```

```
// 6
```



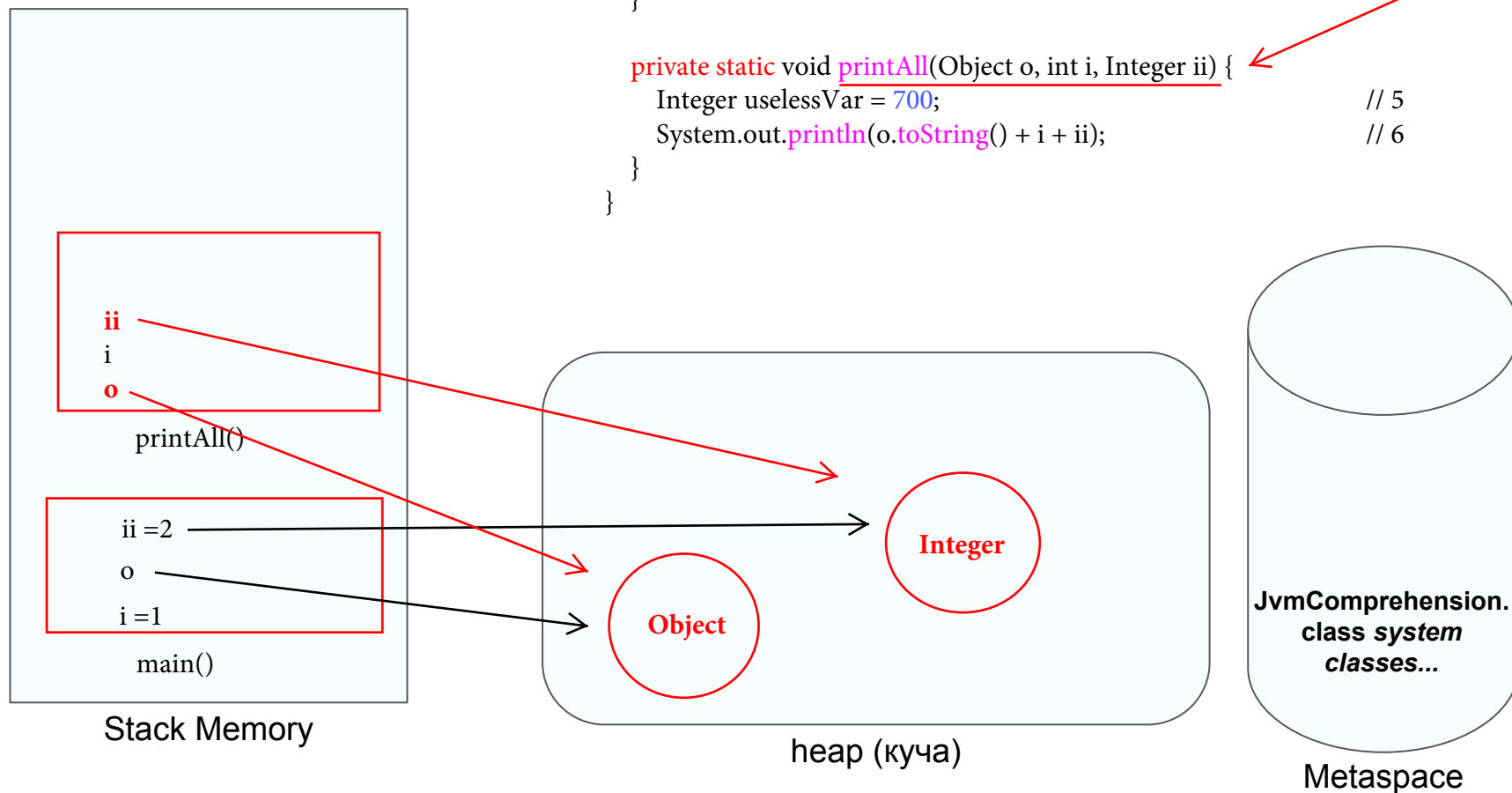
Области памяти

```
public class JvmComprehension {  
  
    public static void main(String[] args) {  
        int i = 1; // 1  
        Object o = new Object(); // 2  
        Integer ii = 2; // 3  
        printAll(o, i, ii); // 4  
        System.out.println("finished"); // 7  
    }  
  
    private static void printAll(Object o, int i, Integer ii) {  
        Integer uselessVar = 700; // 5  
        System.out.println(o.toString() + i + ii); // 6  
    }  
}
```



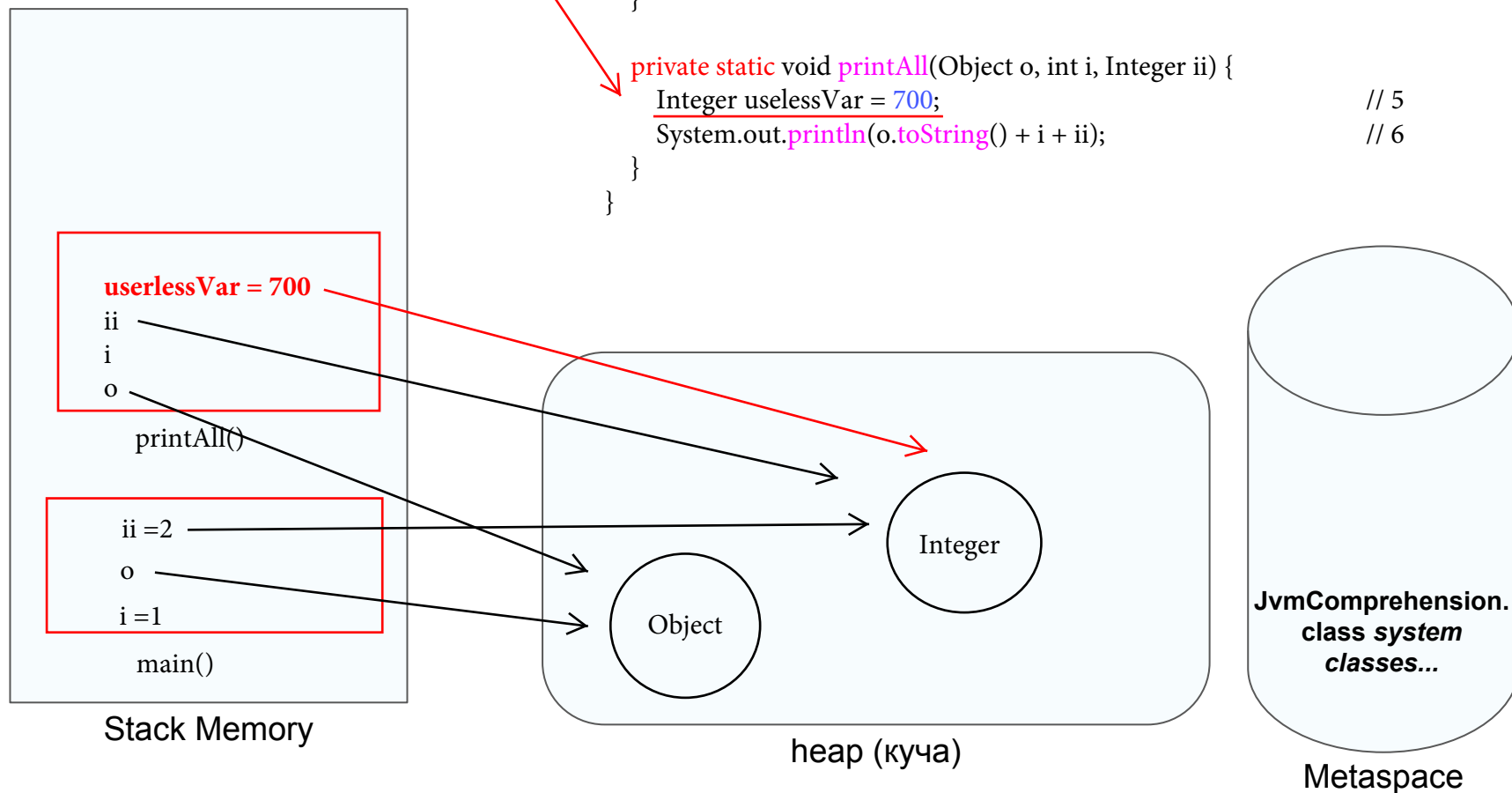
Области памяти

```
public class JvmComprehension {  
  
    public static void main(String[] args) {  
        int i = 1; // 1  
        Object o = new Object(); // 2  
        Integer ii = 2; // 3  
        printAll(o, i, ii); // 4  
        System.out.println("finished"); // 7  
    }  
  
    private static void printAll(Object o, int i, Integer ii) {  
        Integer uselessVar = 700; // 5  
        System.out.println(o.toString() + i + ii); // 6  
    }  
}
```



Области памяти

```
public class JvmComprehension {  
  
    public static void main(String[] args) {  
        int i = 1; // 1  
        Object o = new Object(); // 2  
        Integer ii = 2; // 3  
        printAll(o, i, ii); // 4  
        System.out.println("finished"); // 7  
    }  
  
    private static void printAll(Object o, int i, Integer ii) {  
        Integer uselessVar = 700; // 5  
        System.out.println(o.toString() + i + ii); // 6  
    }  
}
```



Области памяти

Передаем новый фрейм в стек, куда передаем ссылку на результат **o**, **i** и **ii**

```
public class JvmComprehension {
```

```
    public static void main(String[] args) {
```

```
        int i = 1;
```

```
// 1
```

```
        Object o = new Object();
```

```
// 2
```

```
        Integer ii = 2;
```

```
// 3
```

```
        printAll(o, i, ii);
```

```
// 4
```

```
        System.out.println("finished");
```

```
// 7
```

```
    }
```

```
    private static void printAll(Object o, int i, Integer ii) {
```

```
        Integer uselessVar = 700;
```

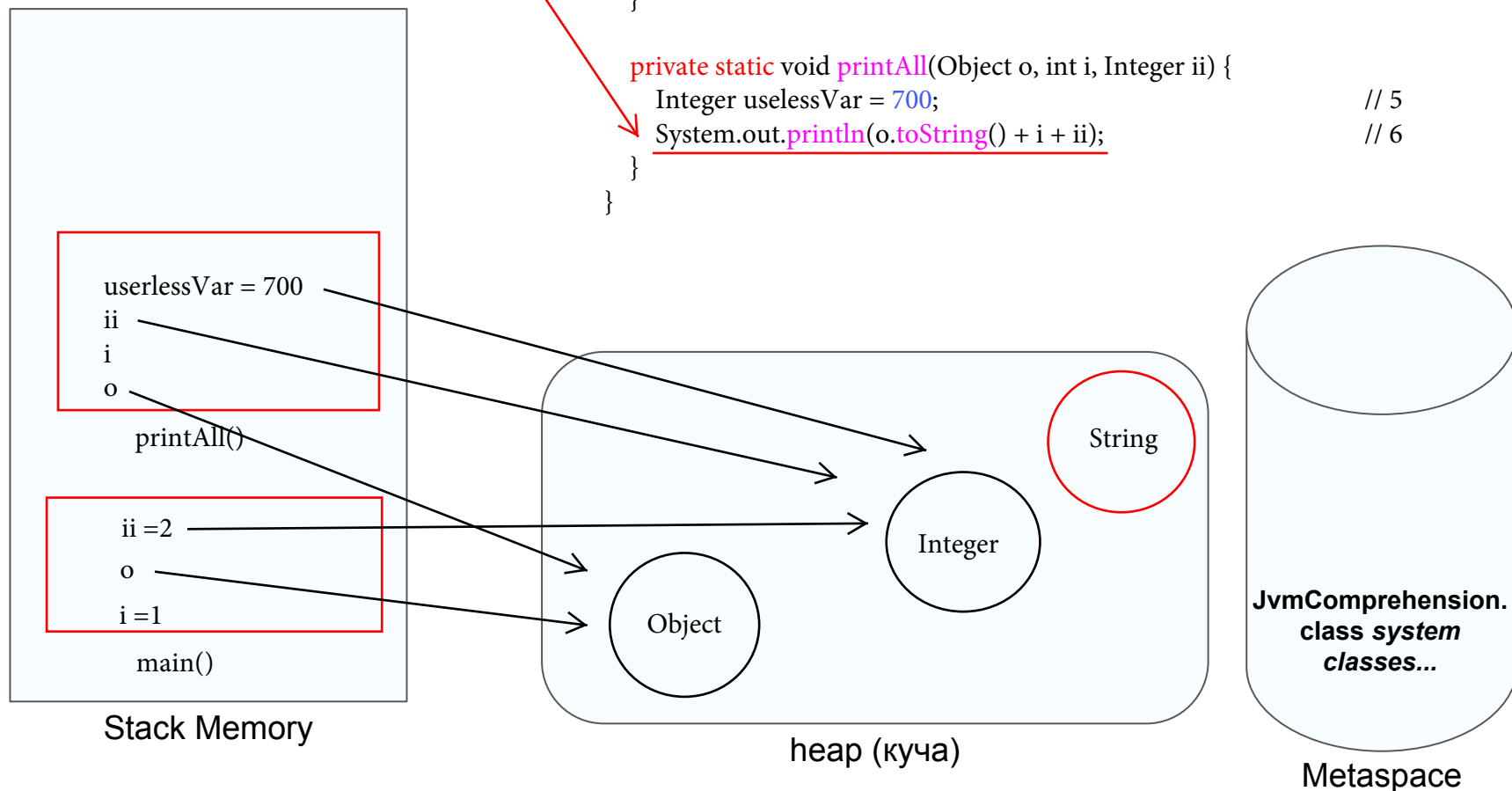
```
// 5
```

```
        System.out.println(o.toString() + i + ii);
```

```
// 6
```

```
    }
```

```
}
```



Области памяти

Передаем новый фрейм в стек, куда передаем ссылку на результат o, i и ii

Передаем новый фрейм в стек и выводим сообщение об окончании выполняемой программы

```
public class JvmComprehension {
```

```
    public static void main(String[] args) {
```

```
        int i = 1;
```

```
// 1
```

```
        Object o = new Object();
```

```
// 2
```

```
        Integer ii = 2;
```

```
// 3
```

```
        printAll(o, i, ii);
```

```
// 4
```

```
        System.out.println("finished");
```

```
// 7
```

```
    }
```

```
    private static void printAll(Object o, int i, Integer ii) {
```

```
        Integer uselessVar = 700;
```

```
// 5
```

```
        System.out.println(o.toString() + i + ii);
```

```
// 6
```

```
    }
```

```
}
```

