

Theory: Printing data

🕒 11 minutes 5 / 8 problems solved

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Throughout this educational platform, you will often write programs that print data on the screen. Let's learn how to do that using a standard approach in Java.

§1. Displaying text using println() and print()

Standard output is a receiver to which a program can send information (text). It is supported by all common operating systems. Java provides a special object `System.out` to work with the standard output. We will often use it to print something.

The `println` method displays the passed string followed by a new line on the screen (**print-line**). As an example, the following code fragment prints four lines.

```
1 System.out.println("I ");
2 System.out.println("know ");
3 System.out.println("Java ");
4 System.out.println("well.");
```

The output:

```
1 I
2 know
3 Java
4 well.
```

All strings were printed as is, without the double quotes.

The method allows you to print the empty line when no string is given:

```
1 System.out.println("Java is a popular programming language.");
2 System.out.println(); // prints empty line
3 System.out.println("It is used all over the world!");
```

The output:

```
1 Java is a popular programming language.
2
3 It is used all over the world!
```

The `print` method displays the passed value and places the cursor (the position where we display a value) after it. As an example, the code below outputs all strings in a single line.

```
1 System.out.print("I ");
2 System.out.print("know ");
3 System.out.print("Java ");
4 System.out.print("well.");
```

The output:

```
1 I know Java well.
```

Pay attention to the spaces between words. We pass them to methods for printing.

§2. Printing numbers and characters

Both methods `println` and `print` allow a program to print not only strings and characters, but also numbers.

Current topic:

✓ `Printing data` Stage 1 ...

Topic depends on:

✓ `Overview of the basic program` Stage 1 ...

Topic is required for:

✓ `Types and variables` Stage 1 ...

✓ `Comments` Stage 1 ...

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Let's print two secret codes.

```
1 System.out.print(108); // printing a number
2 System.out.print('c'); // printing a character that represents a letter
3 System.out.print("Q"); // printing a string
4 System.out.println('3'); // printing a character that represents a digit
5
6 System.out.print(22);
7 System.out.print('E');
8 System.out.print(8);
9 System.out.println('1');
```

It outputs:

```
1 108cQ3
2 22E81
```

Like strings, none of the characters contain quotes.

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