

Nimi: Name:		Kood: Code:	
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1. Koodilugemine. Kirjuta programmi täpne väljatrükk / Reading the code. Write the exact output of the program.

```
public class ReadMe {
    public static int a = 0;
    public static int b = 0;

    public static void main(String[] args) {
        a++;
        foo();
        System.out.println("main a:" + a + " b:" + b);
        bar(foo());
    }

    public static int foo() {
        int a = 1;
        a++;
        b++;
        System.out.println("foo a:" + (++a) + " b:" + b);
        return a;
    }

    public static void bar(int a) {
        a++;
        for (int i = 0; i < 10; i++) {
            a += i % 3;
        }
        System.out.println("bar a:" + a + " b:" + b);
        System.out.println("traktor".substring(4, 7));
    }
}
```

2. Valikvastused, vali üks õige vastus / Choose one correct answer.

```
1. ArrayList<Integer> numbers = new ArrayList<Integer>();
numbers.add(1);
numbers.add(1);
numbers.add(2);
```

1. numbers.size()?	a) 1	b) 2	c) 3	d) 0
--------------------	------	------	------	------

```
2. // 1 continues ...
numbers.remove(1);
```

2. numbers.size()?	a) 1	b) 2	c) 3	d) 0
--------------------	------	------	------	------

```
3. int[] numbers = new int[3];
numbers[0] = 1;
numbers[1] = 3;
```

3. numbers.length?	a) 0	b) 1	c) 2	d) 3
--------------------	------	------	------	------

```
4. String a = "Teretulemast!";
```

4a. a.substring(3,5)?	a) "et"	b) "eu"	c) "etu"	d) "ret"
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4b. a.indexOf("e")?	a) 0	b) -1	c) 1	d) 3
---------------------	------	-------	------	------

4c. a.charAt(8)?	a) 'm'	b) 'e'	c) 'a'	d) 0
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```
5. "1" + 1?
```

5. "1" + 1?	a) 2	b) "2"	c) 11	d) "11"
-------------	------	--------	-------	---------

```
6. int sum = 0;
for (int i = 0; i < 5; i++) {
    if (i > 3) break;
    sum += i;
}
```

6. sum?	a) 15	b) 10	c) 6	d) 3
---------	-------	-------	------	------

```
7. int sum = 0;
```

```
for (int i = 0; i < 8; i++) {
    if (i % 2 == 1) continue;
    sum += i;
}
```

7. sum?

a) 28

b) 20

c) 10

d) 12

```
8. int i = 0;
while (i > 2) {
    i++;
}
```

8. i?

a) 0

b) 1

c) 2

d) 3

```
9. int i = 0;
do {
    i++;
} while (i > 2);
```

9. i?

a) 0

b) 1

c) 2

d) 3

```
10. int[][] matrix = {{0, 1, 0}, {1, 1, 0}, {-1, -1, -1}};
```

10a. matrix[1][2]?

a) 0

b) -1

c) 1

10b. matrix.length

a) 1

b) 6

c) 3

d) 9

3. Kirjuta programm / Write a program

Given a string, find the starting position (index) of the longest word. Words are separated by space (" "). If there are several, return the leftmost word start position.

Hint: str.length() – str length, str.charAt(i) – char at i-th position in str.

Example: longestWordStart("a") => 0

longestWordStart("ja tere tere") => 3

longestWordStart("one two three four") => 8

```
public static int longestWordStart(String str) {
```

```
}
```