

# Control: operators, loops, conditions

Kamill Gusmanov  
@GusmanovKamill

# Calculate Pi

Leibniz formula

3.1415926535897932384626433832795028841971693993751058209749445974085707972496160155339893111017544821971696940656214968879726028146501536052961216



# Prime number

What is prime number?

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What is prime number?

How can we check it?

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How can we check it?

What kind of loop we can use for finding first 1000 prime number?

# Prime number

What is prime number?

How can we check it?

What kind of loop we can use for finding first 1000 prime number?

Write the code that calculated first 1000 prime numbers

# Read from command line

Scanner - <http://www.cs.utexas.edu/users/ndale/Scanner.html>



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```
write 2 numbers:>
```

```
1
```

```
2
```

```
enter operation:>
```

```
%
```

```
result: 0
```

```
write 2 numbers:>...
```

# Extra Task

Write password generator on a given alphabet for the given password length (recursive, or better recursiveless).

```
1 public class PassworGenerator{  
2     public static String[] generator (char[] alphabet, byte length){  
3  
4  
5  
6     }  
7  
8     public static void main(String[] args){  
9         String[] passwords = generator(new char[] {'a', 'b'}, 2)  
10  
11     }  
12 }
```

Result: {"aa", "ab", "ba", "bb" }