Strings and Loops CSE 5910

www.eecs.yorku.ca/course/5910

public int length()

Returns the length of this string.

Question

Is this method static?

public int length()

Returns the length of this string.

Question

Is this method static?

Answer

No.

public int length()

Returns the length of this string.

Question

Does this method return anything?

public int length()

Returns the length of this string.

Question

Does this method return anything?

Answer

Yes, a value of type int.

```
public char charAt(int index)
```

Returns the char value at the specified index.

Question

How do you extract the first character of

```
String word = in.next();
```

```
public char charAt(int index)
```

Returns the char value at the specified index.

Question

How do you extract the first character of

```
String word = in.next();
```

Answer

```
char letter = word.charAt(0);
```

```
public char charAt(int index)
```

Returns the char value at the specified index.

Question

How do you extract the last character of

```
String word = in.next();
```

```
public char charAt(int index)
```

Returns the char value at the specified index.

Question

How do you extract the last character of

```
String word = in.next();
```

Answer

```
char letter = word.charAt(word.length() - 1);
```

If only I had known . . .

Problem

Print, for example,

If I had bought ibm shares on 01/15/68 and sold them on 01/16/93, I would have made a 1599.88% loss

where ibm is provided as a command line argument.

Problem

For all but the first line of the file gts.csv, convert the first value to a Date object and the third and fourth value to values of type double.

Problem

Print the highest high value (the maximum of the third value of each but the first line).

Problem

Print the highest value (the maximum of the third value of each but the first line) and the date at which this highest value occurred.

Problem

Print

- the highest value (the maximum of the third value of each but the first line) and the date at which this highest value occurred.
- the lowest value (the minimum of the fourth value of each but the first line) and the date at which this lowest value occurred.

If only I had known . . .

Problem

Print, for example,

If I had bought ibm shares on 01/15/68 and sold them on 01/16/93, I would have made a 1599.88% loss

where ibm is provided as a command line argument.

Question

How does the user provide command-line arguments?

Question

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Answer

java StockAnalysis "ibm"

Question

How does the user provide command-line arguments?

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java StockAnalysis "ibm"

Question

How does the client get the command-line arguments?

Question

How does the user provide command-line arguments?

Answer

java StockAnalysis "ibm"

Question

How does the client get the command-line arguments?

Answer

As the parameter of the main method.

Question

How does the user provide command-line arguments?

Answer

java StockAnalysis "ibm"

Question

How does the client get the command-line arguments?

Answer

As the parameter of the main method.

Question

What is the type of the parameter of the main method.

Question

How does the user provide command-line arguments?

Answer

java StockAnalysis "ibm"

Question

How does the client get the command-line arguments?

Answer

As the parameter of the main method.

Question

What is the type of the parameter of the main method.

Answer

String[]: an array of Strings.

public static void main(String[] args)

public static void main(String[] args)

Question

How does the client get the first command-line argument?

public static void main(String[] args)

Question

How does the client get the first command-line argument?

Answer

args[0]

public static void main(String[] args)

Question

How does the client get the first command-line argument?

Answer

args[0]

Question

How does the client get the second command-line argument?

public static void main(String[] args)

Question

How does the client get the first command-line argument?

Answer

args[0]

Question

How does the client get the second command-line argument?

Answer

args[1]

public static void main(String[] args)

Question

How does the client get the number of command-line arguments?

public static void main(String[] args)

Question

How does the client get the number of command-line arguments?

Answer

args.length

Problem

Print the content of the URI

http://ichart.finance.yahoo.com/table.csv?s=SYMBOL&ignore=.csv

where SYMBOL is provided as a command-line argument.

Question

Which class can we use to represent a URL?

Question

Which class can we use to represent a URL?

Answer

java.net.URL

Question

Which class can we use to represent a URL?

Answer

java.net.URL

Question

Do we need to import this class?

Question

Which class can we use to represent a URL?

Answer

java.net.URL

Question

Do we need to import this class?

Answer

Yes.

Question

Which class can we use to represent a URL?

Answer

java.net.URL

Question

Do we need to import this class?

Answer

Yes.

Question

Which constructor can we use?

Question

Which class can we use to represent a URL?

Answer

java.net.URL

Question

Do we need to import this class?

Answer

Yes.

Question

Which constructor can we use?

Answer

URL(String)

Question

Which class can we use to read input?

Question

Which class can we use to read input?

Answer

java.util.Scanner

Question

Which class can we use to read input?

Answer

java.util.Scanner

Question

Which constructor can we use?

Question

Which class can we use to read input?

Answer

java.util.Scanner

Question

Which constructor can we use?

Answer

URL(InputStream)

Question

Which class can we use to read input?

Answer

java.util.Scanner

Question

Which constructor can we use?

Answer

URL(InputStream)

Question

How do we get from URL to InputStream?

Question

Which class can we use to read input?

Answer

java.util.Scanner

Question

Which constructor can we use?

Answer

URL(InputStream)

Question

How do we get from URL to InputStream?

Answer

openStream

Wednesday and Monday

- There will be no class on Wednesday (co-curricular days).
- There will be office hours on Wednesday.
- There will be a test on Monday at 15:30 in Lab 1006C of the Lassonde Building. The material for the test is Chapter 1–5 of the textbook. The questions will be similar to the eChecks.
- There will also be a lecture on Monday.

November 1

By November 1, each group is expected to email the instructor

- a list with the names of the members of the group,
- a description of the project (you are suggested to provide a number of milestones ranging from objectives that are easily accomplishable to more challenging objectives), and
- a list of Java packages to be used in the project, including the URL where the package can be found.