# JS Advanced: Exam Preparation

Problems for exam preparation for the [“JavaScript Advanced” course @ SoftUni](https://softuni.bg/courses/javascript-advanced). Submit your solutions in the SoftUni judge system at <https://judge.softuni.bg/Contests/353/>.

## Training Course (Simple Class)

Write a **JavaScript class** TrainingCourse to hold training course: a course has a **title**, a **trainer** and ordered list of **topics**.

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| **class** TrainingCourse {  *//* ***TODO: implement this class*** } |

Each topic holds **title** and **date**. Topics are **ordered by date** (ascending). Implement the following features:

* **Constructor** – creates a training course by **title** and **trainer** (strings).
* Method addTopic(title, date) – adds a topic to the course. The topic consists of topic **title** (string) and topic **date** (JavaScript Date object). Topics in the course internally should be **ordered by date**.
* Accessor property firstTopic – returns the **earliest** (by date) topic from the course – a **JS object** holding **title** (string) and **date** (JS Date object).
* Accessor property lastTopic – returns the **latest** (by date) topic from the course – a **JS object** holding **title** (string) and **date** (JS Date object).
* Method toString() – returns a string representing the course and its topics in the following format:
  + Without topics:

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| Course "*<title>*" by *<trainer>* |

* + With topics:

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| Course "*<title>*" by *<trainer>*  \* *<topic 1>* - <*date 1>*  \* *<topic 2>* - <*date 2>*  \* … |

* Assume there are no topics on the same date.
* Print all **dates** in their **default format** (no additional date / time formatting is required)

### Examples

This is an example how the TrainingCourse class is **intended to be used**:

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| Sample code usage |
| **let *js*** = **new TrainingCourse**(**"JS Intro"**, **"Svetlin Nakov"**); **console**.log(**"First topic: "** + **JSON**.stringify(***js***.firstTopic)); **console**.log(**"Last topic: "** + **JSON**.stringify(***js***.lastTopic)); **console**.log(**""** + ***js***);  ***js***.addTopic(**"Maps"**, **new** Date(2016, 9, 6, 18, 0)); ***js***.addTopic(**"JS Overview"**, **new** Date(2016, 8, 27, 18, 0)); ***js***.addTopic(**"Program Logic"**, **new** Date(2016, 8, 29, 18, 0)); ***js***.addTopic(**"Arrays"**, **new** Date(2016, 9, 3, 18, 0)); **console**.log(**"First topic: "** + **JSON**.stringify(***js***.firstTopic)); **console**.log(**"Last topic: "** + **JSON**.stringify(***js***.lastTopic)); **console**.log(**""** + ***js***);  **let *php*** = **new** TrainingCourse(**"PHP Intro"**, **"Ivan Yonkov"**)  .addTopic(**"Strings"**, **new** Date(2017, 2, 16, 18, 0))  .addTopic(**"PHP First Steps"**, **new** Date(2017, 2, 12, 18, 0))  .addTopic(**"Arrays"**, **new** Date(2017, 2, 14, 18, 0)); **console**.log(**""** + ***php***); |

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| Corresponding output |
| First topic: undefined  Last topic: undefined  Course "JS Intro" by Svetlin Nakov  First topic: {"title":"JS Overview","date":"2016-09-27T15:00:00.000Z"}  Last topic: {"title":"Maps","date":"2016-10-06T15:00:00.000Z"}  Course "JS Intro" by Svetlin Nakov  \* JS Overview - Tue Sep 27 2016 18:00:00 GMT+0300 (FLE Daylight Time)  \* Program Logic - Thu Sep 29 2016 18:00:00 GMT+0300 (FLE Daylight Time)  \* Arrays - Mon Oct 03 2016 18:00:00 GMT+0300 (FLE Daylight Time)  \* Maps - Thu Oct 06 2016 18:00:00 GMT+0300 (FLE Daylight Time)  Course "PHP Intro" by Ivan Yonkov  \* PHP First Steps - Sun Mar 12 2017 18:00:00 GMT+0200 (FLE Standard Time)  \* Arrays - Tue Mar 14 2017 18:00:00 GMT+0200 (FLE Standard Time)  \* Strings - Thu Mar 16 2017 18:00:00 GMT+0200 (FLE Standard Time) |

### Submission

Submit your class TrainingCourse as “**JavaScript code (Mocha unit tests)** ”.