Coursework 2

For students enrolled on Principles and Applications of programming this coursework is worth 10% of your overall grade (30 credits). For students enrolled on Java for Industry this coursework is worth 40% of your final grade (15 credits).

[Watch this video which outlines the coursework](#)

The coursework is in 2 questions worth 35 and 10 marks respectively. Additional marks will be awarded for formatting, style and commenting (5 marks). The total marks available is 50. Question 2 is designed as an extension , only attempt it when you have completed question 1. You can get an excellent mark without attempting question 2.

Submit your work as a zip file. The zip should contain 2 subfolders, one for each question of the coursework. Each subfolder should contain the source files and txt data files.

Please download the following files and read the guide carefully. If you are using IntelliJ you only need to download the intelliJ template, the pdf and the extensionPuzzle.txt file. If you are using an alternative environment for you code, download the other environments zip.

- airline template intelliJ.zip — 4 January 2021, 10:01 AM
- AirlineBooking other environments.zip — 10 December 2020, 6:23 PM
- coursework2.pdf — 10 December 2020, 8:07 PM
- extensionPuzzle.txt — 10 December 2020, 6:23 PM

Submission status

Submission status	Submitted for grading
Grading status	Released
Due date	Monday, 25 January 2021, 9:00 AM
Time remaining	Assignment was submitted 21 days 12 hours early

Grading criteria

Person Abstract class	Not attempted *0 points*	Required properties defined *1 points*	Constructor correctly defined *2 points*	.Defined as abstract with abstract calculatePersonWeight method *3 points*
Crew concrete class	Not attempted *0 points*	Class defined *1 points*	constructor that calls super with correct arguments *2 points*	implementation of calculatePersonWeight method *3 points*
Passenger concrete class	Not attempted *0 points*	class definition and additional properties *1 points*	constructor that calls super with correct arguments and sets instance variables *2 points*	calculatePersonWeight method, partial attempt. *3 points*	calculatePersonWeight method completed. *4 points*
Aircraft class	Not attempted *0 points*	class defined *1 points*	properties defined *2 points*	constructor defined *3 points*	completed constructor and getters and setters *4 points*
Aircraft class toString()	Not attempted *0 points*	partial attempt *1 points*	complete attempt *2 points*		

Seat class	Not attempted 0 points	Seat class defined 1 points	properties defined 2 points	constructor defined 3 points	completed constructor and getters and setters 4 points
Flight class properties and constructor	Not attempted 0 points	Seat class defined 1 points	properties defined 2 points	constructor defined 3 points	getters and setters 4 points	constructor complete, including file loading 5 points
Flight class calculate takeoffWeight	Not attempted 0 points		Partial attempt 2 points		Complete reasonable attempt 4 points
Flight class book seat	Not attempted 0 points	Book seat is defined 1 points	passenger correctly upgraded 2 points	passenger correctly downgraded 3 points	returns correct output codes 4 points
Flight class toString()	Not attempted 0 points		partial attempt 1 points		complete attempt 2 points
Sudoko solver: board layout	Not attempted 0 points	created a cell class 1 points	A grid class 2 points	Determines row duplicates 3 points	Determines column duplicates 4 points	Determines duplicates in 3x3 squares 5 points
Sudoko Solver: backtracking	Not attempted 0 points	. 1 points	. 2 points	. 3 points	. 4 points	puzzle solves in a reasonable number of iterations 5 points
Code quality and style	Insufficient progress to judge 0 points	Tidy and well indented code 1 points	Effective commenting tha enhances readability 2 points	Code organised using object oriented principles 3 points	Correctly chosen coding techniques 4 points	additional complex techniques used. 5 points

Last modified	Sunday, 3 January 2021, 8:08 PM
File submissions	CW2 submission.zip 3 January 2021, 8:08 PM
Submission comments	▶ Comments (1)

Feedback

Grade

Person Abstract class	Not attempted *0 points*	Required properties defined *1 points*	Constructor correctly defined *2 points*	.Defined as abstract with abstract calculatePersonWeight method *3 points*		
Crew concrete class	Not attempted *0 points*	Class defined *1 points*	constructor that calls super with correct arguments *2 points*	implementation of calculatePersonWeight method *3 points*		
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Aircraft class toString()	Not attempted *0 points*	partial attempt *1 points*	complete attempt *2 points*			
Seat class	Not attempted *0 points*	Seat class defined *1 points*	properties defined *2 points*	constructor defined *3 points*	completed constructor and getters and setters *4 points*	
Flight class properties and constructor	Not attempted *0 points*	Seat class defined *1 points*	properties defined *2 points*	constructor defined *3 points*	getters and setters *4 points*	constructor complete, including file loading *5 points*
Flight class calculate takeoffWeight	Not attempted *0 points*	Partial attempt *2 points*	Complete reasonable attempt *4 points*			
Flight class book seat	Not attempted *0 points*	Book seat is defined *1 points*	passenger correctly upgraded *2 points*	passenger correctly downgraded *3 points*	returns correct output codes *4 points*	
Flight class toString()	Not attempted *0 points*	partial attempt *1 points*	complete attempt *2 points*			
Sudoko solver: board layout	Not attempted *0 points*	created a cell class *1 points*	A grid class *2 points*	Determines row duplicates *3 points*	Determines column duplicates *4 points*	Determines duplicates in 3x3 squares *5 points*
Sudoko Solver: backtracking	Not attempted *0 points*	. *1 points*	. *2 points*	. *3 points*	. *4 points*	puzzle solves in a reasonable number of iterations *5 points*
Code quality and style	Insufficient progress to judge *0 points*	Tidy and well indented code *1 points*	Effective commenting tha enhances readability *2 points*	Code organised using object oriented principles *3 points*	Correctly chosen coding techniques *4 points*	additional complex techniques used. *5 points*

98 / 100

Graded on   Sunday, 21 February 2021, 4:09 PM

Graded by   Edward Anstead

Jump to...

Graded on   Sunday, 21 February 2021, 4:09 PM

Graded by   Edward Anstead