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.

<u>airline template intelliJ.zip</u>

AirlineBooking other environments

AirlineBooking other environments.zip 10 December 2020, 6:23 PM

_ _ _ _ _ coursework2.pdf_ extensionPuzzle.txt

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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 O 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 O 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 O points	and a	class definition and additional properties 1 points				method, partial attempt. 3 points		ightalculatePersonWeig method completed. <i>4 points</i>			
Aircraft class	Not attempted O points		s defined Dints	d	propertie defined 2 points		constructor defined 3 points			completed constructor and getters and setters 4 points		
Aircraft class toString()	Not attempted O points	·			partial attempt 1 points				complete attempt 2 points			

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Seat class	Not attempted Seat class O points 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 Seat class defined O points 1 points		efined	properties defined 2 points		constructor defined 3 points		getters and setters 4 points		constructor complete, including file loading	
Flight class calculate takeoffWeight	Not attempted O points			Partia 2 poi	al attempt ints			Complete reasonable attem 4 points			
Flight class book seat	Not attempted Book seat is defined 1 points		3	passenger correctly upgraded 2 points		passenger correctly downgraded 3 points		returns correct output codes 4 points			
Flight class toString()	Not attempted O points				al attempt Ints			complete attempt 2 points			
Sudoko solver: board layout	Not attempted O 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 <i>O points</i>	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 O 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.	

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 O points	defined	Required properties defined 1 points			Constructor correctly defined 2 points			.Defined as abstract with abstract calculatePersonWeight method				
Crew concrete class	Not attempted O points		Class defined 1 points			constructor that calls super with correct arguments 2 points			-				
Passenger concrete class	Not attempted O points	s definition additional perties pints	c c a s	onstructor alls super v orrect rguments a ets instanc ariables	with method, parattempt. and 3 points			artial meth		netho	culatePersonWeight thod completed. points		
Aircraft class	Not attempted class de 0 points 1 points			ined propertie 2 points			s defined constru defined 3 point			d co ts ge		completed constructor and getters and setters 4 points	
Aircraft class toString()	Not attempted O points		partia	ll attempt nts				complete attemp 2 point s					
Seat class	Not attempted O points			efined	properties 2 points			construction defined	d		completed constructor and getters and setters 4 points		
Flight class properties and constructor	Not attempted O points	Seat of define	ed	defin	roperties efined points		constructor defined 3 points		getters and setters 4 points			constructor complete, including file loading 5 points	
Flight class calculate takeoffWeight	Not attempted O points			Partia	al attempt Ints					Complete reasonable attempt 4 points			
Flight class book seat	O points defin		ook seat is efined <i>points</i>		passenger correctly upgraded 2 points		passen correct downgr		tly raded		returns correct output codes 4 points		
Flight class toString()	Not attempted O points		partial attempt 1 points							complete attempt 2 points			
Sudoko solver: board layout	Not attempted O points	create class 1 poin	ed a cell	-	d class	Determin duplicate 3 points		nes row Detern		mines n ates		Determines duplicates in 3x3 squares 5 points	
Sudoko Solver: backtracking	Not attempted O points	1 poi	l points		ints	3 points			4 points			puzzle solves in a reasonable number of iterations 5 points	
Code quality and style	Insufficient progress to judge O points	inden	Fidy and well ndented code I points		Effective commenting tha enhances readability 2 points		Code organised using object oriented principles 3 points		Correctly chosen coding techniques 4 points		ling	additional complex techniques used.	

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