

A meteorologist believes that there is a relationship between the height above sea level, h m, and the air temperature, $t^{\circ}\text{C}$. Data is collected at the same time from 9 different places on the same mountain. The data is summarised in the table below.

h	1400	1100	260	840	900	550	1230	100	770
t	3	10	20	9	10	13	5	24	16

[You may assume that $\sum h = 7150$, $\sum t = 110$, $\sum h^2 = 7\,171\,500$, $\sum t^2 = 1716$, $\sum th = 64\,980$ and $S_r = 371.56$]

- (a) Calculate S_{th} and S_{hh} . Give your answers to 3 significant figures. (3)
- (b) Calculate the product moment correlation coefficient for this data. (2)
- (c) State whether or not your value supports the use of a regression equation to predict the air temperature at different heights on this mountain. Give a reason for your answer. (1)
- (d) Find the equation of the regression line of t on h giving your answer in the form $t = a + bh$. (4)
- (e) Interpret the value of b . (1)
- (f) Estimate the difference in air temperature between a height of 500m and a height of 1000 m. (2)

June 2013 S1 Markscheme

**Moonis Ali, Tibor Bosse, Koen V.
Hindriks, Mark Hoogendoorn, Catholijn
M. Jonker, Jan Treur**

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Cerambycidae of the World Qiao Wang, 2017-01-06 There are more than 36 000 described species in the family Cerambycidae in the world With the significant increase of international trade in the recent decades many cerambycid species have become major plant pests outside their natural distribution range causing serious environmental problems at great cost Cerambycid pests of field vine and tree crops and of forest and urban trees cost billions of dollars in production losses damage to landscapes and management expenditures worldwide Cerambycidae of the World Biology and Pest Management is the first comprehensive text dealing with all aspects of cerambycid beetles in a global context It presents our current knowledge on the biology classification ecology plant disease transmission and biological cultural and chemical control tactics including biosecurity measures from across the world Written by a team of global experts this book provides an entrance to the scientific literature on Cerambycidae for scientists in research institutions primary industries and universities and will serve as an essential reference for agricultural and quarantine professionals in governmental departments throughout the world *Recent Trends in Applied Artificial Intelligence* Moonis Ali, Tibor Bosse, Koen V. Hindriks, Mark Hoogendoorn, Catholijn M. Jonker, Jan Treur, 2013-05-20 This volume constitutes the thoroughly refereed conference proceedings of the 26th International Conference on Industrial Engineering and Other Applications of Applied Intelligence Systems IEA AIE 2013 held in Amsterdam The Netherlands in June 2013 The total of 71 papers selected for the proceedings were carefully reviewed and selected from 185 submissions The papers focus on the following topics auctions and negotiation cognitive modeling crowd behavior modeling distributed systems and networks evolutionary algorithms knowledge representation and reasoning pattern recognition planning problem solving robotics text mining advances in recommender systems business process intelligence decision support for safety related systems innovations in intelligent computation and applications intelligent image and signal processing and machine learning methods applied to manufacturing processes and production systems **Them and Us** Philippe Legrain, 2020-10-15 Winner of the Diversity Inclusion and Equality Award at the Business Book Awards 2021 Underpinned by scholarship entertaining Legrain's book fizzles with practical ideas The Economist The beauty of diversity is that innovation often comes about by serendipity As Scott Page observed one day in 1904 at the World Fair in St Louis the ice cream vendor ran out of cups Ernest Hami a Syrian waffle vendor in the booth next door rolled up some waffles to make cones and the rest is history Filled with data anecdotes and optimism Them and Us is an endorsement of cultural differences at a time of acute national introspection By every measure from productivity to new perspectives immigrants bring something beneficial to society If patriotism means wanting the best for your country we should be welcoming immigrants with open arms Pattern Recognition and Image Analysis Joao Miguel Sanches, Luisa Micó, Jaime Cardoso, 2013-05-23 This book constitutes the refereed proceedings of the 6th Iberian Conference on Pattern Recognition and Image Analysis IbPRIA 2013 held in Funchal Madeira Portugal in June 2013 The 105

papers 37 oral and 68 poster ones presented were carefully reviewed and selected from 181 submissions The papers are organized in topical sections on computer vision pattern recognition image and signal applications

Civil Engineering and Urban Research, Volume 1 Hazem Samih Mohamed,Jinfang Hou,2023-03-28 Civil Engineering and Urban Research collects papers resulting from the conference on Civil Architecture and Urban Engineering ICCAUE 2022 Xining China 24 26 June 2022 The primary goal is to promote research and developmental activities in civil engineering architecture and urban research Moreover it aims to promote scientific information interchange between scholars from the top universities business associations research centers and high tech enterprises working all around the world The conference conducts in depth exchanges and discussions on relevant topics such as civil engineering and architecture aiming to provide an academic and technical communication platform for scholars and engineers engaged in scientific research and engineering practice in the field of urban engineering civil engineering and architecture design By sharing the research status of scientific research achievements and cutting edge technologies it helps scholars and engineers all over the world comprehend the academic development trend and broaden research ideas So as to strengthen international academic research academic topics exchange and discussion and promote the industrialization cooperation of academic achievements

Programming Languages Norman Ramsey,2022-10-27 Computer scientists often need to learn new programming languages quickly The best way to prepare for this is to understand the foundational principles that underlie even the most complicated industrial languages This text for an undergraduate programming languages course distills great languages and their design principles down to easy to learn bridge languages implemented by interpreters whose key parts are explained in the text The book goes deep into the roots of both functional and object oriented programming and it shows how types and modules including generics polymorphism contribute to effective programming The book is not just about programming languages it is also about programming Through concepts examples and more than 300 practice exercises that exploit the interpreter students learn not only what programming language features are but also how to do things with them Substantial implementation projects include Milner's type inference both copying and mark and sweep garbage collection and arithmetic on arbitrary precision integers

Parliamentary Debates (Hansard). Great Britain. Parliament. House of Commons,2013

Issues in Aging Mark Novak,2018-02-02 Issues in Aging combines social psychological biological and philosophical perspectives to present a multifaceted picture of aging Novak illustrates both the problems and the opportunities that accompany older age This text helps students understand the tremendous variability in aging and introduces them to careers working with older adults This new edition reflects the continued changes in the way we age The fourth edition has been updated to include emerging issues in aging These include the prevalence of HIV AIDs in later life current research on mental potential in old age the creation of age friendly cities and new options for end of life care Each chapter begins with a set of learning objectives to guide students in their reading and concludes with a list of main points questions for discussion or study

suggested readings and relevant web sites to consult Each chapter also includes up to date charts and graphs as well as key terms to help students understand the issues presented Break out boxes reveal the human side of aging through the stories of individuals in real life and in the media Backpacker ,2001-03 Backpacker brings the outdoors straight to the reader s doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world s first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker s Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured

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