# **IB Diploma Computer Science HL**



# Grade boundaries for May 2019 papers

Paper 1				Paper 2				Paper 3				Solution (IA)			
Grade	×	From	To	Grade	×	From	To	Grade	16	From	To	Grade	×	From	To
1	0%	0	15	1	0%	0	9	1	0%	0	3	1	0%	0	4
2	16%	16	31	2	15%	10	19	2	13%	4	6	2	15%	5	9
3	32%	32	43	3	31%	20	24	3	23%	7	8	3	29%	10	14
4	44%	44	52	4	38%	25	29	4	30%	9	11	4	44%	15	18
5	53%	53	62	5	46%	30	35	5	40%	12	15	5	56%	19	22
6	63%	63	71	6	55%	36	40	6	53%	16	18	6	68%	23	26
7	72%	72	100	7	63%	41	65	7	63%	19	30	7	79%	27	34

# **Grade Boundaries Computing Cie**

Scott C. Dulebohn

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Cambridge IGCSE® Computer Science Programming Book Richard Morgan, 2015-08-06 This resource is written to follow the updated Cambridge IGCSE Computer Science syllabus 0478 with examination from June and November 2016 Cambridge IGCSE® and O Level Computer Science Programming Book for Python Chris Roffey, 2017-02-02 This resource is written to follow the updated Cambridge IGCSE Computer Science syllabus 0478 with examination from June and November 2016 Cambridge IGCSE and O Level Computer Science Programming Book for Python accompanies the Cambridge IGCSE and O Level Computer Science coursebook and is suitable for students and teachers wishing to use Python in their studies It introduces and develops practical skills to guide students in developing coding solutions to the tasks presented in the book Starting from simple skills and progressing to more complex challenges this book shows how to approach a coding problem using Structure Diagrams and Flow Charts explains programming logic using pseudocode develops Python programming skills and gives full solutions to the tasks set Colour Measurement M. L. Gulrajani, 2010-08-31 The measurement of colour is important in many commercial operations and professions such as bleaching and colouration of textiles applications of paints dentistry and colouration of food products This book will discuss colour measurement theories the latest technological and scientific developments of measuring colour and the applications of colour measurement Part one reviews the underlying theories principles and methods of how to measure colour It includes topics such as expressing colours numerically camera based colour measurement colour shade sorting and determining and improving the accuracy of colour measurement Part two presents a selection of industrial applications illustrating the use of colour measurement in textiles paint teeth hair and food With its international range of contributors Colour measurement Principles advances and industrial applications is beneficial to a variety of readers such as colour technologists colour quality inspectors product developers dentists cosmetologists and anyone who uses colour in their work It will also be a valuable reference for academics and students studying design fashion or colour related subjects Discusses colour measurement theories and the latest technological and scientific developments of measuring colour Case studies illustrate camera based colour measurement and review visual and instrumental evaluation of whiteness and yellowness applications in industries including cosmetics and dentistry Motivations for colour measurement are explored to answer questions raised as to why colours do not match and explain factors such as wet and dry fabric differences Artificial Intelligence and Soft Computing Leszek Rutkowski, Marcin Korytkowski, Rafal Scherer, Ryszard Tadeusiewicz, Lotfi A. Zadeh, Jacek M. Zurada, 2013-06-04 The two volume set LNAI 7894 and LNCS 7895 constitutes the refereed proceedings of the 12th International Conference on Artificial Intelligence and Soft Computing ICAISC 2013 held in Zakopane Poland in June 2013 The 112 revised full papers presented together with one invited paper were carefully reviewed and selected from 274 submissions The 57 papers included in the first volume are organized in the following topical sections neural networks and their applications fuzzy

systems and their applications pattern classification and computer vision image and speech analysis Proceedings of the 8th International Conference on Computer Recognition Systems CORES 2013 Robert Burduk, Konrad Jackowski, Marek Kurzynski, Michał Wozniak, Andrzej Zolnierek, 2013-05-23 The computer recognition systems are nowadays one of the most promising directions in artificial intelligence This book is the most comprehensive study of this field It contains a collection of 86 carefully selected articles contributed by experts of pattern recognition It reports on current research with respect to both methodology and applications In particular it includes the following sections Biometrics Data Stream Classification and Big Data Analytics Features learning and classifiers Image processing and computer vision Medical applications Miscellaneous applications Pattern recognition and image processing in robotics Speech and word recognition This book is a great reference tool for scientists who deal with the problems of designing computer pattern recognition systems Its target readers can be the as well researchers as students of computer science artificial intelligence or robotics **Computer Vision** Technology for Food Quality Evaluation Da-Wen Sun, 2011-04-28 The first book in this rapidly expanding area Computer Vision Technology for Food Quality Evaluation thoroughly discusses the latest advances in image processing and analysis Computer vision has attracted much research and development attention in recent years and as a result significant scientific and technological advances have been made in quality inspection classification and evaluation of a wide range of food and agricultural products This unique work provides engineers and technologists working in research development and operations in the food industry with critical comprehensive and readily accessible information on the art and science of computer vision technology Undergraduate and postgraduate students and researchers in universities and research institutions will also find this an essential reference source Discusses novel technology for recognizing objects and extracting quantitative information from digital images in order to provide objective rapid non contact and non destructive quality evaluation International authors with both academic and professional credentials address in detail one aspect of the relevant technology per chapter making this ideal for textbook use Divided into three parts it begins with an outline of the fundamentals of the technology followed by full coverage of the application in the most researched areas of meats and other The Times Index ,2007 Indexes the Times and its supplements foods fruits vegetables and grains Application of Computer Methods in the Mineral Industry M. D. G. Salamon, Frederick Wilfrid Lancaster, 1973 **Resources in Education** ,1992-06 Scientific and Technical Aerospace Reports, 1978 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database **General Report** Survey of India, 1895 **Photoshop in Black and White** Jim Rich, Sandy Bozek, 1995 A definitive resource for adjusting black and white images using Photoshop 3 0 aimed at intermediate to experienced Photoshop users running Photoshop on either the Macintosh or Windows The book's approach is firmly task oriented as it discusses and illuminates only those issues and procedures specific to black and white image manipulation

Mathematical Reviews ,2008 INIS Atomindex ,1985 Linguistics and Language Behavior Abstracts ,1989 The Foundry Trade Journal ,1978 West Africa ,2002 Jewelers' Circular-keystone ,1995 Engineering ,1950 Who's who in Finance and Business ,2004

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