

Name: _____

Assignment: Make A Quiz

Introduction

Your task is to create a program that will test user knowledge in a given subject area. You will ask the user questions, store their answers in an array, and check the values in the array to see if they are correct. You must also validate all user input to stop bad input.

Program Specifics

The program is required to contain all of the following features:

- A minimum of five questions
- Each answer is checked and correct answers awarded points
- A final score of total points earned which is displayed at the end
- The program is able to catch all run time errors and continue the quiz without issue
- A main menu that offers the player additional options (outlined below)
- When launched, the program should start at the main menu, and return to the main menu when quiz is complete
- The program only ends when the user selects an exit option from the main menu
- A neat and organised user interface (neatly spaced out text, etc.)
- Use of arrays to store user input

Any student that wishes to receive a mark greater than 80% must include one of the following features. Any student that wishes to receive a mark greater than 90% must include two of the following features:

- Multiple difficulty options that can be selected from the menu (minimum of 3 questions per difficulty, total minimum of 5 questions in quiz)
- A multiplayer mode in which players can take turns answering questions and compare scores
- The option to select from multiple subjects
- The option to select the number of questions the user wishes to answer
- Different text output colour for right / wrong answers
- Questions are randomly selected from a larger pool of questions and do not repeat within the same play-through
- Create your own Java Methods (functions) to improve the efficiency of the program and reduce the lines of code that need to be written. For full credit a minimum of 3 methods must be made

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Quiz Topics

Your quiz will be on one of the following topics:

Math, English, History, Geography, Computer Studies, Physics, Biology, Sports, Politics, Arts

Completion Checklist

Y/N

Does my program run? _____

Does my program include all of the required features? _____

Has my program been properly tested? _____

Have I addressed all run-time and logic errors found during testing? _____

Does my program include the required number of bonus features to meet my goals? _____

Have I included proper variable names? _____

Have I declared all variables at the top? _____

Do I have proper comments (body and header)? _____

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	Level 4	Level 3	Level 2	Level 1
Code Format	The code is properly formatted. There is a header, thorough use of body comments, proper variable names, good use of white space, and generally good code structure.	The code is mostly properly formatted. However, the comments may not always be helpful or descriptive, or there be poor variable names, or slightly disorganized code structure.	The code is not formatted well. Variable names, comments, white space, and/or general code structure have not been organized well.	The code is very poorly formatted. No attention has been paid to formatting techniques such as comments or variable names.
Required Features	The program includes all required features. The features have been executed effectively and thoroughly.	The program includes most or all features. However, either execution is sloppy or one feature is missing.	The program only includes some required features. It is significantly limited in what it can do.	The program includes few if any functioning features. Substantial work is needed.
Additional Features	The program includes multiple additional features. You have gone beyond what is expected of you!	The program includes one additional feature. Well done!	The program does not include any additional features. You should aim higher!	The program includes an attempt at additional features that causes major errors and ruins execution.
Creative Solutions	The implementation is effective, efficient, and unique. The writer of this code is working beyond what is expected of them!	The implementation is effective and efficient. The writer of this code is working at the level expected of them.	The implementation is effective. The writer of this code should think about how to make more efficient and direct solutions in the future.	The implementation is ineffective. The solution is incomplete and/or extensively error-prone.

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Planning and Testing Assignment Feedback

Mark Breakdown

Knowledge	• Communication	Application	Thinking
/10	/10	/10	/10

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Topics (To be printed and cut out for students)

Math	English	History	Geography	Computer Studies
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Math	English	History	Geography	Computer Studies
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Math	English	History	Geography	Computer Studies
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Physics	Biology	Sports	Politics	Arts
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Physics	Biology	Sports	Politics	Arts
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Physics	Biology	Sports	Politics	Arts
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