Arrays Practice Questions

1. Basic Array Operations:

- Write a Java program to create an array of integers, input 5 values, and print the sum of the array elements.

- Write a program to reverse the elements of a single-dimension array.

2. Multi-Dimension Arrays:

- Create a 3x3 matrix in Java, initialize it with values, and find the sum of the diagonal elements.

- Write a program to transpose a 2x3 matrix.

3. Jagged Arrays:

- Create a jagged array to store the number of days in each month (considering February has 28 days). Write a program to print the number of days in each month.

4. Array Searching and Sorting:

- Write a Java program to implement a binary search on a sorted array.

- Implement bubble sort on an array of integers.

5. Array Manipulation:

- Write a program to find the maximum and minimum values in an array of integers.

- Create a program that merges two arrays into a single array and removes duplicate elements.

Command Line Arguments Practice Questions

1. Basic Usage:

- Write a Java program that accepts command line arguments and prints them in reverse order.

- Create a program that accepts two numbers as command line arguments and prints their sum, difference, product, and quotient.

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2. Advanced Command Line Arguments:

- Create a program that accepts a list of integers via command line arguments and finds the average of those numbers.

- Write a Java program that checks if the command line arguments contain a specific word.

Variable Arguments (Varargs) Practice Questions

1. Basic Varargs:

- Write a Java method using varargs to find the sum of an arbitrary number of integers passed as arguments.

- Create a method that takes a string and any number of integers as arguments, then prints the string followed by the sum of the integers.

2. Advanced Varargs:

- Implement a method using varargs that accepts an array of integers and returns the smallest number.

- Write a method that uses varargs to concatenate a series of strings into a single string.

Combined Concepts Practice Questions

1. Array and Command Line:

- Create a program that accepts a list of integers via command line arguments, stores them in an array, and sorts the array in ascending order.

2. Varargs and Arrays:

- Write a method that accepts an array of strings via varargs, sorts them alphabetically, and returns the sorted array.

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3. Command Line and Varargs:

- Implement a program that accepts a varying number of command line arguments and determines if they are all numeric. If they are, calculate the sum.

Assignment-Style Questions

1. Comprehensive Array Exercise:

- Write a Java program that takes 10 integer inputs, stores them in an array, sorts the array in descending order, and then finds and prints the second largest number.

2. Array Manipulation with Command Line:

- Create a Java program that accepts an array of integers via command line arguments, finds all the even numbers, and stores them in a new array. Then, print the contents of the new array.

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