

Java Array Questions with Solutions

Q1: Sum of Two Arrays

```
int[] arr1 = {1, 2, 3};
int[] arr2 = {4, 5, 6};
int[] sum = new int[arr1.length];

for (int i = 0; i < arr1.length; i++) {
    sum[i] = arr1[i] + arr2[i];
}

System.out.print("Sum array: ");
for (int val : sum) {
    System.out.print(val + " ");
}
```

Q2: Compare Two Arrays

```
int[] arr1 = {1, 2, 3};
int[] arr2 = {1, 2, 3};

boolean isEqual = java.util.Arrays.equals(arr1, arr2);

if (isEqual) {
    System.out.println("Arrays are equal");
} else {
    System.out.println("Arrays are not equal");
}
```

Q3: Merge Two Arrays

```
int[] arr1 = {1, 2};
int[] arr2 = {3, 4};
int[] merged = new int[arr1.length + arr2.length];

for (int i = 0; i < arr1.length; i++) {
    merged[i] = arr1[i];
}

for (int i = 0; i < arr2.length; i++) {
    merged[arr1.length + i] = arr2[i];
}

System.out.print("Merged array: ");
for (int val : merged) {
    System.out.print(val + " ");
}
```

Q4: Common Elements in Two Arrays

```
int[] arr1 = {1, 2, 3, 4};
int[] arr2 = {3, 4, 5, 6};
```

```

System.out.print("Common elements: ");
for (int i = 0; i < arr1.length; i++) {
    for (int j = 0; j < arr2.length; j++) {
        if (arr1[i] == arr2[j]) {
            System.out.print(arr1[i] + " ");
            break;
        }
    }
}

```

Q5: Unique Elements from Both Arrays

```

int[] arr1 = {1, 2, 3};
int[] arr2 = {3, 4, 5};

System.out.print("Unique elements: ");

// arr1 elements not in arr2
for (int i = 0; i < arr1.length; i++) {
    boolean found = false;
    for (int j = 0; j < arr2.length; j++) {
        if (arr1[i] == arr2[j]) {
            found = true;
            break;
        }
    }
    if (!found) {
        System.out.print(arr1[i] + " ");
    }
}

// arr2 elements not in arr1
for (int i = 0; i < arr2.length; i++) {
    boolean found = false;
    for (int j = 0; j < arr1.length; j++) {
        if (arr2[i] == arr1[j]) {
            found = true;
            break;
        }
    }
    if (!found) {
        System.out.print(arr2[i] + " ");
    }
}

```

Q6: Copy Elements of One Array into Another

```

int[] arr1 = {5, 10, 15};
int[] arr2 = new int[arr1.length];

for (int i = 0; i < arr1.length; i++) {
    arr2[i] = arr1[i];
}

```

```
System.out.print("Copied array: ");  
for (int val : arr2) {  
    System.out.print(val + " ");  
}
```

Q7: Find Maximum from Two Arrays

```
int[] arr1 = {1, 9, 3};  
int[] arr2 = {5, 6, 8};  
int max = Integer.MIN_VALUE;  
  
for (int val : arr1) {  
    if (val > max) {  
        max = val;  
    }  
}  
for (int val : arr2) {  
    if (val > max) {  
        max = val;  
    }  
}  
  
System.out.println("Maximum element: " + max);
```