

How to make copy of an array in Java?

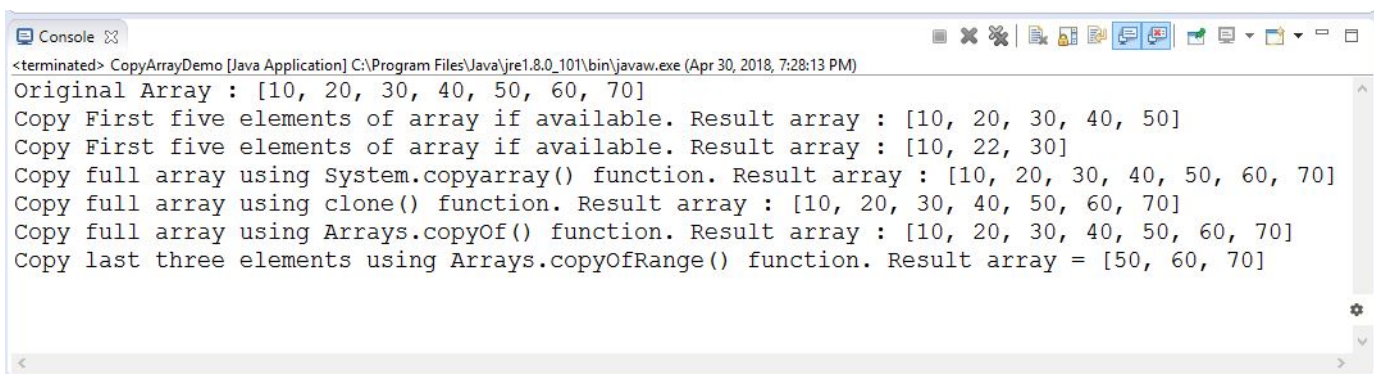
Write a code in java to make copy of an array?

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Answers

1:There are multiple ways of making a copy of array in Java : 1.

System.arraycopy(): This method provides you an easy way to specify the total number of elements to copy and the source and destination array index positions. e.g. `System.arraycopy(source, 3, destination, 2, 5)` will copy 5 elements from source to destination, beginning from 3rd index of source to 2nd index of destination. 2. **Object.clone():** `clone()` method is provided by object and as array in java is also an Object, you can make use of this method in order to get the full array copy. 3. **Arrays.copyOfRange():** This method is helpful where you need few elements of an array to be copied, where starting index is not 0, you can use this method to copy partial array. 4. **Arrays.copyOf():** When you want to copy first few elements of an array or full copy of array, you can use this method. Let's implement these methods :



```
Console
<terminated> CopyArrayDemo [Java Application] C:\Program Files\Java\jre1.8.0_101\bin\javaw.exe (Apr 30, 2018, 7:28:13 PM)
Original Array : [10, 20, 30, 40, 50, 60, 70]
Copy First five elements of array if available. Result array : [10, 20, 30, 40, 50]
Copy First five elements of array if available. Result array : [10, 22, 30]
Copy full array using System.arraycopy() function. Result array : [10, 20, 30, 40, 50, 60, 70]
Copy full array using clone() function. Result array : [10, 20, 30, 40, 50, 60, 70]
Copy full array using Arrays.copyOf() function. Result array : [10, 20, 30, 40, 50, 60, 70]
Copy last three elements using Arrays.copyOfRange() function. Result array = [50, 60, 70]
```