Write a java program to find common elements between two arrays?

OR

Write a java program to find intersection of two arrays?

This is also one of the most asked java interview program for freshers as well as for 1 or 2 years experienced java professionals. In this post, we will discuss couple of methods to find common elements between two arrays.

**1) Using Iterative Method**

In this method, we iterate both the given arrays and compare each element of one array with elements of other array. If the elements are found to be equal, we will add that element into HashSet. This method also works for those arrays which contain duplicate elements.

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| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24 | **class** CommonElements  {  **public** **static** **void** main(String[] args)      {          String[] s1 = {"ONE", "TWO", "THREE", "FOUR", "FIVE", "FOUR"};            String[] s2 = {"THREE", "FOUR", "FIVE", "SIX", "SEVEN", "FOUR"};            HashSet<String> set = **new** HashSet<String>();    **for** (**int** i = 0; i < s1.length; i++)          {  **for** (**int** j = 0; j < s2.length; j++)              {  **if**(s1[i].equals(s2[j]))                  {                      set.add(s1[i]);                  }              }          }            System.out.println(set);     //OUTPUT : [THREE, FOUR, FIVE]      }  } |

**2) Using retainAll() Method :**

This is one of the easiest method to find the common elements from two arrays. In this method, we create two HashSets using given two arrays and then use reatinAll() method of HashSet to retain only common elements from the two sets.

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17 | **class** CommonElements  {  **public** **static** **void** main(String[] args)      {          Integer[] i1 = {1, 2, 3, 4, 5, 4};            Integer[] i2 = {3, 4, 5, 6, 7, 4};            HashSet<Integer> set1 = **new** HashSet<>(Arrays.asList(i1));            HashSet<Integer> set2 = **new** HashSet<>(Arrays.asList(i2));            set1.retainAll(set2);            System.out.println(set1);     //Output : [3, 4, 5]      }  } |

Enum

Has – a – relationship

Is – a – relationship

Interview questions

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