

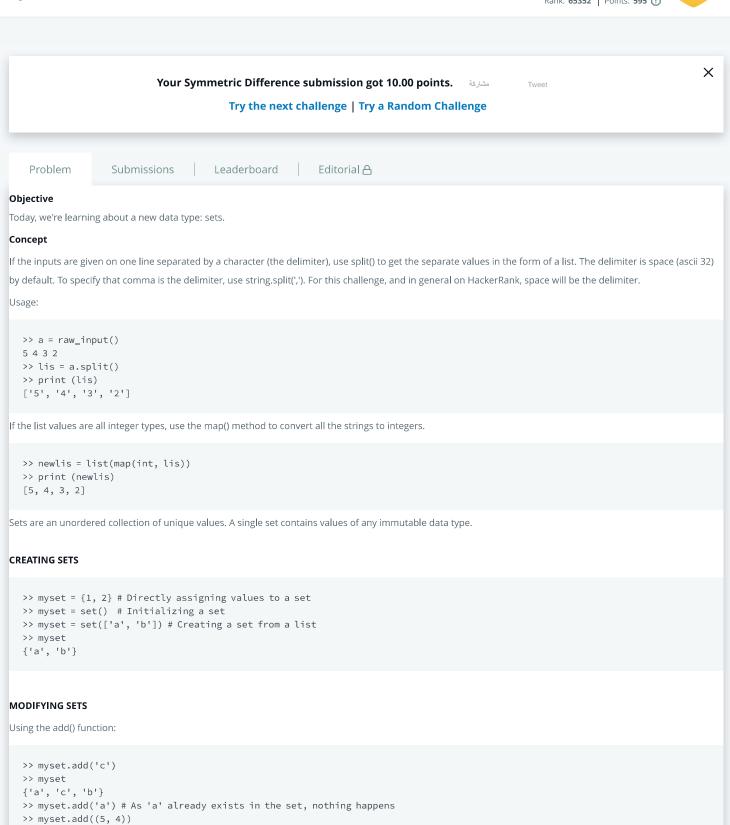
HackerRank











>> myset

{'a', 'c', 'b', (5, 4)}

Using the update() function:

```
>> myset.update([1, 2, 3, 4]) # update() only works for iterable objects
>> myset
{'a', 1, 'c', 'b', 4, 2, (5, 4), 3}
>> myset.update({1, 7, 8})
>> myset
{'a', 1, 'c', 'b', 4, 7, 8, 2, (5, 4), 3}
>> myset.update({1, 6}, [5, 13])
>> myset
{'a', 1, 'c', 'b', 4, 5, 6, 7, 8, 2, (5, 4), 13, 3}
```

REMOVING ITEMS

Both the discard() and remove() functions take a single value as an argument and removes that value from the set. If that value is not present, discard() does nothing, but remove() will raise a KeyError exception.

```
>> myset.discard(10)
>> myset
{'a', 1, 'c', 'b', 4, 5, 7, 8, 2, 12, (5, 4), 13, 11, 3}
>> myset.remove(13)
>> myset
{'a', 1, 'c', 'b', 4, 5, 7, 8, 2, 12, (5, 4), 11, 3}
```

COMMON SET OPERATIONS Using union(), intersection() and difference() functions.

```
>> a = {2, 4, 5, 9}
>> b = {2, 4, 11, 12}
>> a.union(b) # Values which exist in a or b
{2, 4, 5, 9, 11, 12}
>> a.intersection(b) # Values which exist in a and b
{2, 4}
>> a.difference(b) # Values which exist in a but not in b
{9, 5}
```

The union() and intersection() functions are symmetric methods:

```
>> a.union(b) == b.union(a)
True
>> a.intersection(b) == b.intersection(a)
True
>> a.difference(b) == b.difference(a)
False
```

These other built-in data structures in Python are also useful.

Task

Given **2** sets of integers, **M** and **N**, print their symmetric difference in ascending order. The term symmetric difference indicates those values that exist in either **M** or **N** but do not exist in both.

Input Format

The first line of input contains an integer, $oldsymbol{M}.$

The second line contains $oldsymbol{M}$ space-separated integers.

The third line contains an integer, $oldsymbol{N}$.

The fourth line contains $oldsymbol{N}$ space-separated integers.

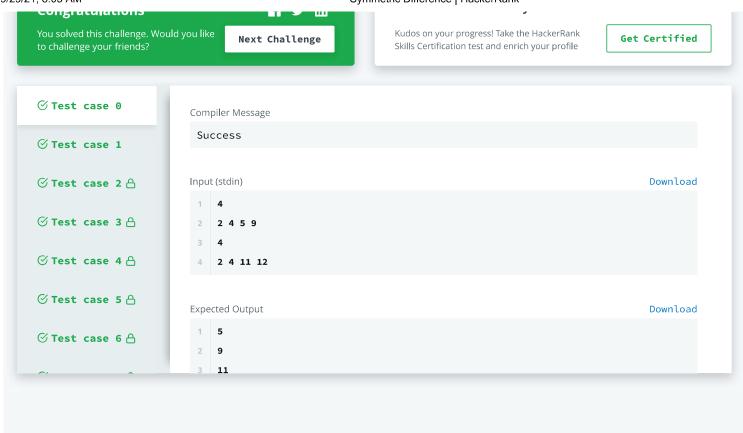
Output Format

Output the symmetric difference integers in ascending order, one per line.

Sample Input

```
Function
  STDIN
  4
             set a size M = 4
  2 4 5 9
             a = \{2, 4, 5, 9\}
             set b size N = 4
  2 4 11 12 b = {2, 4, 11, 12}
Sample Output
  5
  9
  11
  12
                                                                 Change Theme Language Python 3
                                                                                                            1 n=int(input())
   2 s1=set(map(int,input().split()))
   3 m=int(input())
   s2=set(map(int,input().split()))
   5 s=s1.difference(s2)
6 s.update(s2.difference(s1))
   7 \vee \text{for i in sorted(s):}
            print(i)
                                                                                                             Line: 8 Col: 13
                                                                                               Run Code
                                                                                                             Submit Code
   Test against custom input
You have earned 10.00 points!
44/115 challenges solved.
38%
                                                                 Earn a certificate in Python
                                           4
```

Congratulations



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