

# HackerRank \_ReadMi4:

## 1- What 're the methods that you used ?

- No Idea!
- Introduction to Sets
- Symmetric Difference
- Set .add()
- Set .union() Operation
- \* Set .intersection() Operation
- \* Set .difference() Operation
- \* Set .symmetric\_difference() Operation
- \* Set Mutations
- \* Check Strict Superset

## 2- Explain each method .

- **No Idea!:**  
the problem we have given an array of integers. we need to like all the integers in the set and dislike all the integers in sets. your initial happiness is for each integer in the array if we add to happiness. otherwise, our happiness does not change. we need to output our final happiness at the end.
- **Introduction to Sets:** Set  
is a collection of objects but in mathematics, the definition of the set is one of the most strange definitions. It is a way in mathematics that allows us to put similar objects together. Does mathematics have a tool that can collect families or similar mathematical objects together
- **Symmetric Difference :** The method returns a set that contains all items from both set, but not the items that are present in both sets.Meaning: The returned set contains a mix of items that are not present in both sets.Syntax  
`set.symmetric_difference(set)`
- **The set add():** method adds a given element to a set if the element is not present in the se

- **Set .union() Operation** : **function** returns a new set which contains all the items from the original set. **Union** of two given sets is the smallest set which contains all the elements of both the sets. Union of two given sets A and B is a set which consists of all the elements of A and all the elements of B such that no element is repeated.
  - **Mutation** :The mutable and immutable datatypes in Python cause a lot of headache for new programmers. In simple words, mutable means 'able to be changed' and immutable means 'constant'. Want your head to spin? Consider this example
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### 3- What's new for you ?

- **Mutation**
- **Symmetric Difference**

### 4- Resources ?

- ▼ <https://stackoverflow.com/questions/66123460/hackerrank-problem-no-idea-set-vs-list-runtime-in-python-3>
- ▼ [Sets: Definition of a Set, Representations, Conventions, Videos, Examples \(toppr.com\)](#)
- ▼ [Python Set symmetric\\_difference\(\) Method \(w3schools.com\)](#)
- ▼ [set add\(\) in python - GeeksforGeeks](#)
- ▼ [Union\(\) function in Python - GeeksforGeeks](#)
- ▼ [HackerRank Set Mutations problem solution in python \(programmingoneonone.com\)](#)