



## Add & Delete

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**✓** Allowed languages

#### **Problem Statement**

You are given a collection of n distinct numbers.

You are given an array consisting of **n** distinct numbers. Further you are given **q** queries of the format :-

- 1. "1 value" inserton
- 2. "2 value" deletion
- 3. "3 value1 value2" report number of values which lie between value1 and value2 (both numbers inclusive)

### **Input Format**

- The first line contains 2 space separated integers **n** and **q**, the length of the initial array and the number of queries.
- The second line contains **n** space separated integers- the elements of the array.
- The next **q** lines would be of the format "1 value" or "2 value" or "3 value1 value2".
- Before performing query type 1, the new element doesn't already exist in the array.
- Before performing query type 2, the element to be deleted is guarenteed to be a part of the array.
- Before performing query type 3, the 2 elements given value1 and value2 are guarenteed to be a part of the array and value1!=value2.
- Its guarenteed that BST creation wouldnt reach N^2 complexity

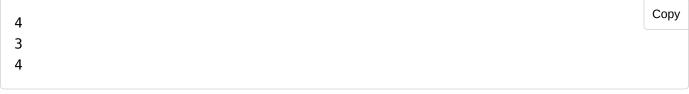
### **Output Format**

• For every query type 3, print the number of numbers lying in between value1 and value2 (inclusive of both limits) on a new line.

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# Clarifications

Report an issue

No clarifications have been made at this time.

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