**Sorting Lab 1 Compute the number of distinct values in array of N integers**.

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Which method runs fastest for an array with all keys identical, selection sort or insertion sort?

**Questions**

**Q1**  for an array with identical equal values, which is faster selection sort or insertion sort?

**Q2**  for an array with almost all sorted values, which is faster selection sort or insertion sort?

**Q3**  for an array with random values, could we say that selection sort or insertion sort is faster?

**Practical**

Given that:

* N is an integer within the range [0..100,000];
* each element of array A is an integer within the range [−1,000,000..1,000,000].

**Write code that computes the number of distinct values in the array**