
Subject: set difference, with duplicates

Posted by [Russell\[1\]](#) on Wed, 10 Feb 2016 20:03:33 GMT

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Hi everyone...

I have two long-integer arrays, one of which contains duplicate entries, and I'd like to find the elements in a but not in b. For example:

```
a=[2,3,4,5,2,3,5,2,4,3,10,100]
```

```
b=[2,10]
```

I'd like set operator that computes $a \setminus b$, but preserves the duplicate entries (and order if possible) for a. For example,

```
c = set_difference(a,b)
```

and I would want

```
c=[3,4,5,3,5,4,3,100]
```

I'm aware of the Coyote's `cgsetdifference`, but that does not preserve duplicates (or I didn't realize the right set of options).

Any ideas? If it helps, the a-array may be very long 10^5 elements and the b array will be 10^3 elements. I also expect the values to be very high, but I can compress them to the lowest possible integer arrays.

Thanks for any advice,
Russell
