

**Match a Field Without Specifying Array Index** If you do not know the index position of the document in the array, concatenate the name of the field that contains the array, with a dot (.) and the name of the field in the embedded document.

The following example selects all documents where the `memos` field contains an array that contains at least one embedded document that contains the field `by` with the value `'shipping'`:

```
db.inventory.find( { 'memos.by': 'shipping' } )
```

The operation returns the following documents:

```
{
  _id: 100,
  type: "food",
  item: "xyz",
  qty: 25,
  price: 2.5,
  ratings: [ 5, 8, 9 ],
  memos: [ { memo: "on time", by: "shipping" }, { memo: "approved", by: "billing" } ]
}
{
  _id: 101,
  type: "fruit",
  item: "jkl",
  qty: 10,
  price: 4.25,
  ratings: [ 5, 9 ],
  memos: [ { memo: "on time", by: "payment" }, { memo: "delayed", by: "shipping" } ]
}
```

### Specify Multiple Criteria for Array of Documents

**Single Element Satisfies the Criteria** Use `$elemMatch` operator to specify multiple criteria on an array of embedded documents such that at least one embedded document satisfies all the specified criteria.

The following example queries for documents where the `memos` array has at least one embedded document that contains both the field `memo` equal to `'on time'` and the field `by` equal to `'shipping'`:

```
db.inventory.find(
  {
    memos:
      {
        $elemMatch:
          {
            memo: 'on time',
            by: 'shipping'
          }
      }
  }
)
```

The operation returns the following document:

```
{
  _id: 100,
  type: "food",
  item: "xyz",
  qty: 25,
```