

QUIZ

We are working with a MongoDB collection called `publishers` where each document has an array field called `books` that contains embedded documents with data about the `author` and the `year` the book was published. The documents have the following structure:

```
{
  title: "The Lord Of The Rings: The Fellowship of The Ring"
  author: "J.R.R. Tolkien"
  year: 1954
  popular: true
}
```

Fill in the MongoDB command below so that it correctly queries the collection for all documents where the `books` array contains at least one document where the `author` is "Stephen King" *and* the published `year` is 2000 or greater.

```
db. publishers .find( { books : { $elemMatch : { author: "Stephen King", year: { $gte:
2000 } } } })
```



You got it!

We have a MongoDB database that stores data about outdoor gear that our e-commerce store sells. Inside the database, we have a collection named `customers` where each document has a `shopping_cart` field that stores product names that customers put into their cart. Here is an example document:

```
{
  customer_id: 3242,
  first_name: "Leonardo",
  shopping_cart: ["tent", "backpack", "kettle"]
}
```

Which of the following documents would **NOT** be matched by this query on our `customers` collection?

```
db.customers.find( { shopping_cart: { $all: [ "tent", "backpack", "water bottle" ] } } );
```

```
{
  _id: ObjectId(...),
  customer_id: 2614,
  cart: ["tent", "water bottle", "cooler", "rain jacket"]
}
```



That's right! This document wouldn't be matched because it doesn't contain all the elements mentioned in our query.

We are working with a MongoDB database that has a collection named `trucks`. Each truck document has an array field named `cargo` with an embedded document with information about the items it is transporing. Each document follows a similar structure:

```
{
  truck_id: 342349,
  driver: "Abdel Jen",
  cargo: [{
    item_name: "Milk",
    perishable: true
  },
  {
    item_name: "Coffee Beans",
    perishable: false
  }]
}
```

Which of the following MongoDB queries would return all trucks that are carrying a perishable (where `perishable` is `true`) item?

```
db.trucks.find({ "cargo.perishable": true })
```



Correct! This would find all the truck documents that have an embedded document inside of the `cargo` field that is perishable.

Consider a MongoDB collection called `movies` where each document has an array field called `cast`. Here is an example document:

```
{
  name: "Star Wars"
  director: "George Lucas"
  cast: [ "Mark Hamill", "Harrison Ford", "Carrie Fisher" ]
}
```

What command should we run if we want to search the collection for a movie featuring "`Lupita Nyong'o`" as a cast member?

```
db.movies.find( cast, "Lupita Nyong'o" )
```

```
db.movies.find( {}, { cast: "Lupita Nyong'o" })
```

```
db.movies.find({ cast: ["Lupita Nyong'o"] })
```

```
db.movies.find({ cast: "Lupita Nyong'o" })
```



Well done! This query would search the `movies` collection for the field `cast` with the value of "`Lupita Nyong'o`".

We are working with a MongoDB database that has a collection named `students`. Each student document has an array field named `classes` with an embedded document with information about the current classes the student is in. Each document follows a similar structure:

```
{
  student_id: 342349,
  name: "Mia Saf",
  classes: [{
    name: "Chemistry 101",
    section: "4A"
  },
  {
    name: "Biology 101",
    section: "6C"
  }]
}
```

Which of the following MongoDB queries would return all students who are in a class named "Existential Philosophy" in section "2B".

```
db.students( { classes: { name: "Existential Philosophy", section: "2B"} } )
```

```
db.find( { classes: { name: "Existential Philosophy", section: "2B" } } )
```

```
db.students.find( { classes: { section: "2B", name: "Existential Philosophy"} } )
```

```
db.students.find( { classes: { name: "Existential Philosophy", section: "2B" } } )
```



Excellent, that is correct! This query would find all the embedded documents in the `classes` field of the `students` collection with a field `name` and `section` that has the exact values and in the exact ... [Show more](#)

We are working with a MongoDB database and have a collection called `trains`. Which of the following commands would we run if we wanted to query this collection on an array field called `transfer_stations` with these exact values in this specific order: "Union Square", "Chambers Street", and "Fulton Street"?

```
db.trains.find({ transfer_stations: ["Union Square", "Chambers Street", "Fulton Street"] })
```



Excellent, that is correct! This query would find all the records in the `trains` collection with a field `transfer_stations` that has the exact values in the exact order we specified.

Fill in the blanks below to complete the following statement about MongoDB.

In MongoDB, we can use the ``$elemMatch`` operator with the ``find()`` method to match documents where an `array` field contains at least one element that satisfies `all` of the query conditions.



You got it!

We are working with a MongoDB collection called `nba_teams`. The documents inside the collection look like this:

```
{
  _id: ObjectId(...),
  team: "Brooklyn Nets",
  championship_wins: [1974, 1976]
}
```

Which of the following documents would be matched by this query?

```
db.nba_teams.find({ championship_wins: { $gt: 1990, $lt: 2000 } })
```

```
{
  _id: ObjectId(...),
  team: "New York Knicks",
  championship_wins: [1970, 1973]
}
```

```
{
  _id: ObjectId(...),
  team: "Miami Heat",
  championship_wins: [2006, 2012, 2013]
}
```

```
{
  _id: ObjectId(...),
  team: "Philadelphia 76ers",
  championship_wins: [1955, 1967, 1983]
}
```

```
{
  _id: ObjectId(...),
  team: "Milwaukee Bucks",
  championship_wins: [1971, 2021]
}
```