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Homework 1 | CS 326 Written Problems - Collections

1

1. How many keys are in the map? List them.

There are 7 keys in the map:

1. :description
2. :favicon
3. :fulltext
4. :image
5. :tags
6. :title
7. :url

2. What is the value associated with the key :image?

“http://ichef.bbci.co.uk/news/1024/cpsprodpb/A4F2/production/_86562224_86562223.jpg”

3. What is the type of this value?

String

4. What is the value associated with the key :tags?

```
[{%{accuracy: 0.7628205128205128, name: "french"},
  {%{accuracy: 0.6730769230769231, name: "technical"},
  {%{accuracy: 0.6730769230769231, name: "plane"},
  {%{accuracy: 0.5384615384615385, name: "bbc"},
  {%{accuracy: 0.40384615384615385, name: "newsrussian"},
  {%{accuracy: 0.358974358974359, name: "flight"},
  {%{accuracy: 0.358974358974359, name: "egypt"},
  {%{accuracy: 0.3141025641025641, name: "russian"},
  {%{accuracy: 0.3141025641025641, name: "data"},
  {%{accuracy: 0.3141025641025641, name: "recorder"}
]
```

5. What is the type of this value?

List (containing maps)

6. How many elements are there in the value associated with the key :tags?

10

7. What type of collection is returned by the function Enum.take? (Hint: use the help facility, h)

list

8. Without trying to run anything, show the result of running `Enum.take resp[:tags] 3`

```
[%{accuracy: 0.7628205128205128, name: "french"},
 % {accuracy: 0.6730769230769231, name: "technical"},
 % {accuracy: 0.6730769230769231, name: "plane"}]
```

9. What would be the result of running `resp[:tags] |> hd |> Enum.count?`

2

2.

```
songs = [
  %{
    artist: "The Shadows 'Nepathya'",
    song: "Resham",
    album: "Best of Nepathya",
    length: 300
  },
  %{
    artist: "The Shadows 'Nepathya'",
    song: "Chekyo Chekyo",
    album: "Best of Nepathya",
    length: 340
  },
  %{
    artist: "Adele",
    song: "Hello",
    album: "25",
    length: 295
  },
  %{
    artist: "Coldplay",
    song: "Yellow",
    album: "Parachutes",
    length: 269
  }
]

albums = [
  %{
    artist: "The Shadows 'Nepathya'",
    album: "Best of Nepathya",
    tracks: [
      %{artist: "The Shadows 'Nepathya'", song: "Resham", album: "Best of Nepathya", length: 300},
      %{artist: "The Shadows 'Nepathya'", song: "Chekyo Chekyo", album: "Best of Nepathya", length: 340},
      %{artist: "Adele", song: "Hello", album: "25", length: 295},
      %{artist: "Coldplay", song: "Yellow", album: "Parachutes", length: 269}
    ]
  }
]
```

```

    %{"artist": "The Shadows 'Nepathya'", "song": "Chekyo Chekyo", "album": "Best of Nepathya",
  ],
},
%{
  artist: "Adele",
  album: "25",
  tracks: [
    %{"artist": "Adele", "song": "Hello", "album": "25", "length": 295},
    %{"artist": "Adele", "song": "When We Were Young", "album": "25", "length": 299}
  ]
},
%{
  artist: "Coldplay",
  album: "Parachutes",
  tracks: [
    %{"artist": "Coldplay", "song": "Yellow", "album": "Parachutes", "length": 269},
    %{"artist": "Coldplay", "song": "Shiver", "album": "Parachutes", "length": 300}
  ]
}
]

```