

Software Developer Assignment

Instructions:

- Complete the assignment within the given time frame.
- Use given input for solving the problem
- Send you code which covers all the test cases and desired outputs
- Clearly explain your logic in your report.

Section 1: Code Writing & Algorithm

Scenario:

17LIVE shows live streamers on the APP with different sections. Each section has some streams. Now, in some sections few top streams are repeated, which hampers the user experience as users see repeated streams.

We need to solve:

1. **No repetition of streams in the section on top 3 slots**
 - Based on the given dataset, make sure that no sections have the same streams at the top 3 positions
2. **Order must be kept of section and streams**
 - The dataset has come from a recommendation system, so we cannot change the order of the sections. For streams only top 3 streams can be changed to resolve duplication

Dataset Format:

- The dataset will be provided in JSON format.
- It will include a response with an ordered sections map, which will have streams of each section

Submission Format:

- Write code in Java and make a zip of the project
- Share steps to run the code
- Briefly explain the algorithm
- Share input and output in text files as JSON
- Share the test cases you used and one scenario in which the code could fail with the possible solution for better user experience

JSON Input Dataset:

```
[
  {
    "sectionData": [
      {
        "streamerID": "db5309b4-053b-4013-9309-5e0e6a7d0a2a"
      },
      {
        "streamerID": "75d95031-72e7-4bee-be92-75494e1530ff"
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      {
        "streamerID": "75d95031-72e7-4bee-be92-75494e1530ff"
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      {
        "streamerID": "9b345f78-1973-498d-a06e-935d5c83aae5"
      },
      {
        "streamerID": "691f160b-131e-4572-b727-e7d88993428f"
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      {
        "streamerID": "918d3470-23aa-414e-b81d-28bee67c0c27"
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      {
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      },
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      {
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      {
        "streamerID": "e6a3d4d9-b7c4-461b-8521-8ee975245855"
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        "streamerID": "8a91fabf-34e9-43d8-9486-fb85fdb23919"
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    "streamerID": "a0f425dc-e59e-4fc1-bd6b-5b872ee3f7a6"
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```



```
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    },
    {
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    },
    {
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    }
  ],
  "sectionID": "Social Media Trends & Influencers"
},
{
  "mlDynamicLabel": true,
  "sectionData": [
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    },
    {
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    {
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    {
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    },
    {
      "streamerID": "691f162b-131e-4572-b727-e7d88993428f"
    }
  ],
```

```
{
  "streamerID": "918d3470-23aa-414e-b81d-28bee67c0c27"
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"localisedKey": "music",
"sectionID": "music"
},
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```

Expected Output JSON:

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{
  "Streamers' Daily Life Updates": [
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  "Social Media Trends & Influencers": [
    "4c2b41d1-f4ce-438e-a0f5-317b7cbf5c3a",
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    "9b345f78-1973-498d-a06e-935d5c83aae5",
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    "04244baf-30b7-4287-9d08-536781f0d345",
    "938af20d-cf69-4756-a9fc-d25bb6f673c8",
    ...
  ],
  "music": [
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    ....
  ]
}
```