Home Page Guidelines

Read URL-Code-Implementation-Guideline FIRST!!!

Now you should have your algorithm's URL link.
You need to make the following changes to add your algorithms to the homepage.

Step 1:

Find file algorithms-in-action/src/components/mainmenu/index.js, you will find the following code:

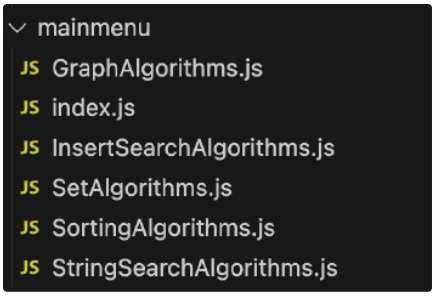
```
// Example for for new insert/search algorithm
const allAlgorithms = [
    { name: 'Brute Force', url: `${baseUrl}/?alg=bruteForceStringSearch&mode=search` },
    { name: "Horspool's", url: `${baseUrl}/?alg=horspoolStringSearch&mode=search` },
    { name: 'Depth First Search', url: `${baseUrl}/?alg=DFSrec&mode=find` },
    { name: 'DFS (iterative)', url: `${baseUrl}/?alg=DFS&mode=find` },
    { name: 'Breadth First Search', url: `${baseUrl}/?alg=BFS&mode=find` },
    { name: "Dijkstra's (shortest path)", url: `${baseUrl}/?alg=dijkstra&mode=find` },
    { name: 'A* (heuristic search)', url: `${baseUrl}/?alg=aStar&mode=find` },
    { name: "Prim's (min. spanning tree)", url: `${baseUrl}/?alg=prim&mode=find` },
    { name: "Prim's (simpler code)", url: `${baseUrl}/?alg=prim_old&mode=find` },
    { name: "Kruskal's (min. spanning tree)", url: `${baseUrl}/?alg=kruskal&mode=find` },
    { name: "Warshall's (transitive closure)", url: `${baseUrl}/?alg=transitiveClosure&mode=tc` },
    { name: 'Binary Search Tree', url: `${baseUrl}/?alg=binarySearchTree&mode=search` },
    { name: '2-3-4 Tree', url: `${baseUrl}/?alg=TTFTree&mode=search` },
    { name: 'Union Find', url: `${baseUrl}/?alg=unionFind&mode=find` },
    { name: 'Heapsort', url: `${baseUrl}/?alg=heapSort&mode=sort` },
    { name: 'Quicksort', url: `${baseUrl}/?alg=quickSort&mode=sort` },
    { name: 'Quicksort (Median of 3)', url: `${baseUrl}/?alg=quickSortM3&mode=sort` },
    { name: 'Merge Sort', url: `${baseUrl}/?alg=msort_arr_td&mode=sort` },
    { name: 'Your-Algo', url: `${baseUrl}/?alg=New_Algo` }
  ];
```

Add your algorithm to the end using the following format :
{ name: '[algorithm name]', url: `[url link]` }

This step is to ensure that the search bar on the homepage can find your algorithm.

Step 2:

Find Folder algorithms-in-action/src/components/mainmenu, you will find the following files:



Besides index.js, the other files represent all the current algorithm types. Find the type of your algorithm and enter the corresponding file.

Add your algorithm to the end using the following format AGAIN :
{ name: '[algorithm name]', url: `[url link]` }

```
// Example for for new insert/search algorithm
const insertSearchAlgorithms = [
  { name: 'Binary Search Tree', url: `${baseUrl}/?alg=binarySearchTree&mode=search` },
  { name: '2-3-4 Tree', url: `${baseUrl}/?alg=TTFTree&mode=search` },
  { name: 'Your-Algo', url: `${baseUrl}/?alg=New_Algo` }
];
```

This step is to ensure that the link to your algorithm appears on the homepage.

Step 3:

Find file algorithms-in-action/src/components/AlgorithmMenu.js, you will find the following code:

Find the location of your algorithm's type.
Add your algorithm to the end using the following format :
{ name: '[algorithm name]', url: `[url link]` }

```
// Example for for new insert/search algorithm
const algorithms = {
  Sort: {
    'Heapsort': `${baseUrl}/?alg=heapSort&mode=sort`,
    'Quicksort': `${baseUrl}/?alg=quickSort&mode=sort`,
    'Quicksort (Median of 3)': `${baseUrl}/?alg=quickSortM3&mode=sort`,
    'Merge Sort': `${baseUrl}/?alg=msort_arr_td&mode=sort`
  },
  Graph: {
    'Depth First Search': `${baseUrl}/?alg=DFSrec&mode=find`,
    'DFS (iterative)': `${baseUrl}/?alg=DFS&mode=find`,
    'Breadth First Search': `${baseUrl}/?alg=BFS&mode=find`,
    "Dijkstra's (shortest path)": `${baseUrl}/?alg=dijkstra&mode=find`,
    'A* (heuristic search)': `${baseUrl}/?alg=aStar&mode=find`,
    "Prim's (min. spanning tree)": `${baseUrl}/?alg=prim&mode=find`,
    "Prim's (simpler code)": `${baseUrl}/?alg=prim_old&mode=find`,
    "Kruskal's (min. spanning tree)": `${baseUrl}/?alg=kruskal&mode=find`,
    "Warshall's (transitive closure)": `${baseUrl}/?alg=transitiveClosure&mode=tc`
  },
```

```
  Set: {
    'Union Find': `${baseUrl}/?alg=unionFind&mode=find`
  },
  'Insert/Search': {
    'Binary Search Tree': `${baseUrl}/?alg=binarySearchTree&mode=search`,
    '2-3-4 Tree': `${baseUrl}/?alg=TTFTree&mode=search`,
    'Your-Algo': `${baseUrl}/?alg=New_Algo`
  },
  StringSearch: {
    'Brute Force': `${baseUrl}/?alg=bruteForceStringSearch&mode=search`,
    "Horspool's": `${baseUrl}/?alg=horspoolStringSearch&mode=search`
  }
};
```

This step is to ensure that the link to your algorithm appears in the menu button on the algorithm page.

If you have completed all the above steps, congratulations on finishing the homepage modifications ! !