

problem solving(Newcomers) road map

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Sources :

- C++ Source

<https://www.youtube.com/playlist?list=PLPt2dINI2MIZPFq6HyUB1Uhx dh1UDnZMS>

Algorithms And data structure:

<https://www.youtube.com/playlist?list=PLPt2dINI2MIZX2EtY81WI-IDKvhKziLKM>

<https://www.youtube.com/playlist?list=PLPt2dINI2MlayAafeRHZPVhIoL7yZTyB9>

<https://www.youtube.com/playlist?list=PLoK2Lr1miEm-5zCzKE8siQezj9rvQInca>

- New comers

<https://www.youtube.com/playlist?list=PLPt2dINI2MIaNcU070HIAO8JWYBcafuyG>

- Problem solving road map

https://drive.google.com/file/d/1J0FR3VmamMq7vzvSTWAB_vKklbEFsqll/view?usp=sharing

And it is explained here

<https://www.youtube.com/watch?v=DZ6YTtILCE8&feature=youtu.be>

- Sheet :

https://docs.google.com/spreadsheets/d/1iJZWP2nS_OB3kCTjq8L6TrJJ4o-5lhxD0yTaocSYc-k/edit#gid=84654839

And the following video will help to understand the sheet:

https://www.youtube.com/watch?v=c3ImvYBxgwE&feature=youtu.be&ab_channel=ArabicCompetitiveProgramming

Detailed Roadmap:

1. The C++ playlist that we will be working on:

<https://www.youtube.com/playlist?list=PLPt2dINI2MIZPFq6HyUB1Uhx dh1UDnZMS>

2. Data Structure and Algorithm Playlists:

<https://www.youtube.com/playlist?list=PLPt2dINI2MIZX2EtY81WI-IDkv hKziLKM>

<https://www.youtube.com/playlist?list=PLPt2dINI2MlayAafeRHZPVhloL7yZTyB9>

- **To Train Yourself on Solving Problems:**

3. The video illustrates the road map (watch to min 18).

<https://www.youtube.com/watch?v=DZ6YTtILCE8&feature=youtu.be>

4. The road map pdf.

https://drive.google.com/file/d/1J0FR3VmamMq7vzvSTWAB_vKklbEFsql/view?usp=sharing

5. Video about the sheet that we will try to solve parallel with the studying playlists.

https://www.youtube.com/watch?v=c3ImvYBxgwE&feature=youtu.be&ab_channel=ArabicCompetitiveProgramming

6. The sheet itself that we will try to progress on:

https://docs.google.com/spreadsheets/d/1iJZWP2nS_OB3kCTjq8L6TrJJ4o-5lhxD0yTaocSYc-k/edit#gid=84654839

7. Newcomers playlist:

<https://www.youtube.com/playlist?list=PLPt2dINI2MIaNcU070HIAO8JWYBcafuyG>

8. The playlist contains some problems solutions (if needed later).

<https://www.youtube.com/playlist?list=PLPt2dINI2MIa5tPrd1wO1pY8w5XuxRbhR>

Additional:

Good Data Structure Playlist:

<https://www.youtube.com/playlist?list=PLoK2Lr1miEm-5zCzKE8siQezj9rvQInca>

Good Algorithms and Data Structure Specialization on Coursera:

<https://www.coursera.org/specializations/data-structures-algorithms>

CS Topics Roadmap (to search about):

<https://drive.google.com/drive/folders/1IP1lCow26cuaSqtwszdJZ7ySbt2eUuxd?usp=sharing>

Bouns:

- **Python Specialization** (The last two courses are the algorithms thinking basics):

<https://www.coursera.org/specializations/computer-fundamentals?fbclid=IwAR1GZE29S3AHuglpa8yxSfZJ8TNcZLp0U1CLl1-mZ8V4pCDKHF3Xk-PQRkA>