1 Review arrays, dynamic memory:

<https://drive.google.com/file/d/1MgvA4A2bF17JsSA1fDvyOSC-V79N6Ldq/view?usp=sharing>

2 Review functions, template functions:

<https://docs.google.com/presentation/d/1u7yiqxBOmCUmv0LYioxMsjMT6GLGoYSKZbr46QfZ288/edit?usp=sharing>

3 Review exceptions, classes, template classes:

<https://drive.google.com/file/d/1ZINCFxOb-Hps3v_rdfbyLqUJKYxaR-Bl/view?usp=sharing>

4 Optional: Inheritance, polymorphism, virtual functions:

<https://docs.google.com/presentation/d/16_Jghr9ma-VajLwctDb8TTCEj4IbuZFX8sgeZH2V9QA/edit?usp=sharing>

5 Fixed size arrays:

<https://drive.google.com/file/d/13s4laWbslkoH-HuQcRM-DNr893CZiAj2/view?usp=sharing>

5 Optional: comprehensive review of C concepts:

<https://docs.google.com/presentation/d/1MIDDWOqSNzc9OxzeCrEl5BVtSDkE1JuekQpbd8SGovg/edit?usp=sharing>

6 Linked Lists

<https://drive.google.com/file/d/1HGQcXy4_E6fP-b3BfuSwn1zk8fEpF8co/view?usp=sharing>

7 Algorithm analysis:

<https://docs.google.com/presentation/d/1Iysn3yK-FpWpeOX1tcK-bfVhs4Wzu7Bzjgh-y-fxCME/edit?usp=sharing>

8 Doubly linked lists:

<https://drive.google.com/file/d/1y730jFcvt7CwWPLP4LegllzwmR-Ovoxd/view?usp=sharing>

9 Iterators

<https://drive.google.com/open?id=10HArKSBd8I4g0AVcxX0L0NtKSZgRgtvZ>

10 STL iterators:

<https://drive.google.com/file/d/15fuj8PU0JDdedDxVz_Hehee0HAhcTH_T/view?usp=sharing>

11 Recursive functions:

<https://docs.google.com/presentation/d/18JBMXwSTlvr2lyP0j3htzStUoSr7i0QiwjCD7-UbTwk/edit?usp=sharing>

11 Optional: more recursive functions

<https://drive.google.com/file/d/1QtbJXHSAA0K5uQb1CQp1AzUBRC36zW2n/view?usp=sharing>

11 Recursive functions for linked lists:

<https://drive.google.com/file/d/17vqXJoikdftK6CqBW-J9epn5yBRyeIPQ/view?usp=sharing>

11 STL forward list:

<https://drive.google.com/file/d/1KnB1-b6Q6bUPA9D3qFKDNTsy_RRBtP0S/view?usp=sharing>

15 Stacks:

<https://docs.google.com/presentation/d/1wpfegIKDpFkyMUDHQNqkcezxf5blKY4k0Eg8G5z9cvM/edit?usp=sharing>

16 More on stacks:

<https://drive.google.com/file/d/1m9scMmSy2n7Vj6AR8qa5MurVnC-3KOb3/view?usp=sharing>

17 Queues:

<https://docs.google.com/presentation/d/1Y3qtoa_At5jQQ-E9V2NEUeoQyLoHjSzF2pxX-Sn_R5c/edit?usp=sharing>

18 Queues and adapters:

<https://drive.google.com/file/d/1nLDcMcL6unA4BzvgfWbLMwI82w-HGSak/view?usp=sharing>

19 Vectors and amortized analysis:

<https://drive.google.com/file/d/1ZXmrSrWuyDCpFnA30t6DV2rw1HAZZQC3/view?usp=sharing>

20 Trees:

<https://drive.google.com/file/d/1DGN0D-IympZRL4GzOd5bfBNVe_B8eJ8R/view?usp=sharing>

21 More on trees:

<https://drive.google.com/file/d/1UgbI-bBUxPA_A-Vo6xW8lWJGGGyHogEQ/view?usp=sharing>

22 Allen Holiday’s notes on trees:  
<https://drive.google.com/file/d/1p5zMeToK0wf1R6HKYOI2rECL_PaQnEIc/view?usp=sharing>

23 Binary search trees:

<https://drive.google.com/open?id=17unkM5XHXSy09G_gcWyXD21QQuPjpmbEcjUaHmtKYW8>

24 Allen Holiday’s notes on trees:

<https://drive.google.com/open?id=1PnL4581-c7dkHI77dNPq9tmGs-XUgm7cWZVzrEpLVn0>

25 Maps, BST:

<https://drive.google.com/file/d/1qrt7b_xCo_Hd7LiBtuTEYOysrK8osYwb/view?usp=sharing>

BST:

<https://docs.google.com/presentation/d/17unkM5XHXSy09G_gcWyXD21QQuPjpmbEcjUaHmtKYW8/edit?usp=sharing>

Set, multiset, map etc:

<https://drive.google.com/file/d/1t8pAEP3kbqpZyWubzzLWYYJ9cUXfjIGI/view?usp=sharing>

26 AVL trees:  
<https://drive.google.com/file/d/1FdLQ3EYFUqsntsuNBVwqrL4QiBE6dWON/view?usp=sharing>

27 AVL trees examples:  
<https://drive.google.com/file/d/1cldpvKf9EwfJm37oU1Gtsd9wY35n_6Mp/view?usp=sharing>

28 STD map:  
<https://drive.google.com/file/d/1z6P1mkyC5Ollmd2uVe0JN55tBF8UO67f/view?usp=sharing>

29 Graphs:

<https://docs.google.com/presentation/d/1ae3W7-pwqm43mLRjwYKi10HI7D71dwWNajSLif1qOZ0/edit?usp=sharing>

30 More on graphs:

<https://drive.google.com/file/d/1ib7kzx6UTgFL-EUUPhn6JiSulV4qWIQj/view?usp=sharing>

31 Adjacency matrix, adjacency lists:  
<https://drive.google.com/file/d/11jMx-3wtBkvem_4Tq8CCL6U-5BSBx9Zt/view?usp=sharing>

32 Graph traversal:

<https://drive.google.com/file/d/1Z6nb0X4E0V5d33HQ9YO-5roIettJiZt4/view?usp=sharing>

33 DFS:

<https://drive.google.com/file/d/1EAdwJSWJiUlOv39_XpCf3YkMB8CtYbzo/view?usp=sharing>

34 BFS:

<https://drive.google.com/file/d/18mj2wwHO78K2amWNHeOq_nvnQVxrt3bD/view?usp=sharing>

35 Hash functions:

<https://drive.google.com/file/d/1fAejBab4_jNmsdoyiHGcaNmDfl61pHhZ/view?usp=sharing>

36 More on hash tables:  
<https://drive.google.com/file/d/1Lbszj_xZH40-2t8RzBMdOqdK8C2Bkc96/view?usp=sharing>

37 Allen Holiday’s notes on hash tables:  
<https://drive.google.com/file/d/1Jcye2qQvUOlkGRWMo7pTDagc52hhtKSm/view?usp=sharing>

38 Hash in C++:  
<https://drive.google.com/file/d/1zovPeYK6vsfFr1Wnh-FfXaDEY6vs_nUp/view?usp=sharing>

Cctype library:  
<https://docs.google.com/presentation/d/1kaJbuU-IpL1L_9gr0PymEVZYlV_VzFB11EH-U0S9-cA/edit?usp=sharing>

Optional: reference versus pointer:

<https://drive.google.com/file/d/125lPtmKdjabHF0pOVs5rUCU1FBv5MgRw/view?usp=sharing>