HackerRank Online Judge

Prepared by: Mohamed Ayman

Algorithm Engineer at Valeo

Deep Learning Researcher and Teaching Assistant

at The American University in Cairo (AUC)

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sw.eng.MohamedAyman@gmail.com

facebook.com/cs.MohamedAyman

linkedin.com/in/cs-MohamedAyman

github.com/cs-MohamedAyman

codeforces.com/profile/Mohamed_Ayman

HackerRank Online Judge – Phase 3 Algorithms Basics

Lecture Agenda

We will discuss in this lecture the following topics

1- Warm-up   [10 problems]
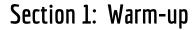
2- Recursion   [10 problems]

3- Sorting   [15 problems]

4- Search   [25 problems]

5- Implementation   [65 problems]

Let's **START** **UP**

Lecture Agenda

Section 1: Warm-up

Section 2: Recursion

Section 3: Sorting

Section 4: Search

Section 5: Implementation

HackerRank - Warm-up

[01] https://www.hackerrank.com/challenges/simple-array-sum/problem

[02] https://www.hackerrank.com/challenges/compare-the-triplets/problem

[03] https://www.hackerrank.com/challenges/a-very-big-sum/problem

[04] https://www.hackerrank.com/challenges/diagonal-difference/problem

[05] https://www.hackerrank.com/challenges/plus-minus/problem

[06] https://www.hackerrank.com/challenges/staircase/problem

[07] https://www.hackerrank.com/challenges/mini-max-sum/problem

[08] https://www.hackerrank.com/challenges/birthday-cake-candles/problem

[09] https://www.hackerrank.com/challenges/time-conversion/problem

Lecture Agenda

Section 1: Warm-up ✓

Section 2: Recursion

Section 3: Sorting

Section 4: Search

Section 5: Implementation

HackerRank - Recursion

[01] https://www.hackerrank.com/challenges/the-power-sum/problem

[02] https://www.hackerrank.com/challenges/crossword-puzzle/problem

[03] https://www.hackerrank.com/challenges/recursive-digit-sum/problem

[04] https://www.hackerrank.com/challenges/simplified-chess-engine/problem

[05] https://www.hackerrank.com/challenges/password-cracker/problem

[06] https://www.hackerrank.com/challenges/stone-division-2/problem

[07] https://www.hackerrank.com/challenges/arithmetic-expressions/problem

[08] https://www.hackerrank.com/challenges/k-factorization/problem

[09] https://www.hackerrank.com/challenges/bowling-pins/problem

[10] https://www.hackerrank.com/challenges/simplified-chess-engine-ii/problem

[11] https://www.hackerrank.com/challenges/repeat-k-sums/problem

Lecture Agenda

✓ Section 1: Warm-up

✓ Section 2: Recursion

Section 3: Sorting

Section 4: Search

Section 5: Implementation

HackerRank - Sorting

[01] https://www.hackerrank.com/challenges/big-sorting/problem

[02] https://www.hackerrank.com/challenges/tutorial-intro/problem

[03] https://www.hackerrank.com/challenges/insertionsort1/problem

[04] https://www.hackerrank.com/challenges/insertionsort2/problem

[05] https://www.hackerrank.com/challenges/correctness-invariant/problem

[06] https://www.hackerrank.com/challenges/runningtime/problem

[07] https://www.hackerrank.com/challenges/quicksort1/problem

[08] https://www.hackerrank.com/challenges/countingsort1/problem

[09] https://www.hackerrank.com/challenges/countingsort2/problem

[10] https://www.hackerrank.com/challenges/closest-numbers/problem

[11] https://www.hackerrank.com/challenges/find-the-median/problem

[12] https://www.hackerrank.com/challenges/countingsort4/problem

[13] https://www.hackerrank.com/challenges/fraudulent-activity-notifications/problem

[14] https://www.hackerrank.com/challenges/lilys-homework/problem

[15] https://www.hackerrank.com/challenges/insertion-sort/problem

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HackerRank - Search

[01] https://www.hackerrank.com/challenges/icecream-parlor/problem

[02] https://www.hackerrank.com/challenges/missing-numbers/problem

[03] https://www.hackerrank.com/challenges/sherlock-and-array/problem

[04] https://www.hackerrank.com/challenges/hackerland-radio-transmitters/problem

[05] https://www.hackerrank.com/challenges/gridland-metro/problem

[06] https://www.hackerrank.com/challenges/knightl-on-chessboard/problem

[07] https://www.hackerrank.com/challenges/minimum-loss/problem

[08] https://www.hackerrank.com/challenges/pairs/problem

[09] https://www.hackerrank.com/challenges/connected-cell-in-a-grid/problem

[10] https://www.hackerrank.com/challenges/short-palindrome/problem

[11] https://www.hackerrank.com/challenges/count-luck/problem

[12] https://www.hackerrank.com/challenges/cut-the-tree/problem

[13] https://www.hackerrank.com/challenges/gena/problem

[14] https://www.hackerrank.com/challenges/xor-quadruples/problem

[15] https://www.hackerrank.com/challenges/red-knights-shortest-path/problem

[16] https://www.hackerrank.com/challenges/maximum-subarray-sum/problem

HackerRank - Search

[17] https://www.hackerrank.com/challenges/maximizing-mission-points/problem

[18] https://www.hackerrank.com/challenges/making-candies/problem

[19] https://www.hackerrank.com/challenges/bike-racers/problem

[20] https://www.hackerrank.com/challenges/playing-with-numbers/problem

[21] https://www.hackerrank.com/challenges/sorted-subsegments/problem

[22] https://www.hackerrank.com/challenges/king-richards-knights/problem

[23] https://www.hackerrank.com/challenges/task-scheduling/problem

[24] https://www.hackerrank.com/challenges/similarpair/problem

[25] https://www.hackerrank.com/challenges/almost-integer-rock-garden

[26] https://www.hackerrank.com/challenges/distant-pairs/problem

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HackerRank - Implementation

[01] https://www.hackerrank.com/challenges/grading/problem

[02] https://www.hackerrank.com/challenges/apple-and-orange/problem

[03] https://www.hackerrank.com/challenges/kangaroo/problem

[04] https://www.hackerrank.com/challenges/between-two-sets/problem

[05] https://www.hackerrank.com/challenges/breaking-best-and-worst-records/problem

[06] https://www.hackerrank.com/challenges/the-birthday-bar/problem

[07] https://www.hackerrank.com/challenges/divisible-sum-pairs/problem

[08] https://www.hackerrank.com/challenges/migratory-birds/problem

[09] https://www.hackerrank.com/challenges/day-of-the-programmer/problem

[10] https://www.hackerrank.com/challenges/bon-appetit/problem

[11] https://www.hackerrank.com/challenges/sock-merchant/problem

[12] https://www.hackerrank.com/challenges/drawing-book/problem

[13] https://www.hackerrank.com/challenges/counting-valleys/problem

[14] https://www.hackerrank.com/challenges/electronics-shop/problem

[15] https://www.hackerrank.com/challenges/cats-and-a-mouse/problem

[16] https://www.hackerrank.com/challenges/counting-valleys/problem

HackerRank - Implementation

[17] https://www.hackerrank.com/challenges/the-hurdle-race/problem

[18] https://www.hackerrank.com/challenges/designer-pdf-viewer/problem

[19] https://www.hackerrank.com/challenges/utopian-tree/problem

[20] https://www.hackerrank.com/challenges/angry-professor/problem

[21] https://www.hackerrank.com/challenges/beautiful-days-at-the-movies/problem

[22] https://www.hackerrank.com/challenges/strange-advertising/problem

[23] https://www.hackerrank.com/challenges/save-the-prisoner/problem

[24] https://www.hackerrank.com/challenges/circular-array-rotation/problem

[25] https://www.hackerrank.com/challenges/permutation-equation/problem

[26] https://www.hackerrank.com/challenges/jumping-on-the-clouds-revisited/problem

[27] https://www.hackerrank.com/challenges/find-digits/problem

[28] https://www.hackerrank.com/challenges/append-and-delete/problem

[29] https://www.hackerrank.com/challenges/sherlock-and-squares/problem

[30] https://www.hackerrank.com/challenges/library-fine/problem

[31] https://www.hackerrank.com/challenges/cut-the-sticks/problem

[32] https://www.hackerrank.com/challenges/repeated-string/problem

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[33] https://www.hackerrank.com/challenges/jumping-on-the-clouds/problem

[34] https://www.hackerrank.com/challenges/equality-in-a-array/problem

[35] https://www.hackerrank.com/challenges/acm-icpc-team/problem

[36] https://www.hackerrank.com/challenges/taum-and-bday/problem

[37] https://www.hackerrank.com/challenges/bigger-is-greater/problem

[38] https://www.hackerrank.com/challenges/minimum-distances/problem

[39] https://www.hackerrank.com/challenges/halloween-sale/problem

[40] https://www.hackerrank.com/challenges/bigger-is-greater/problem

[41] https://www.hackerrank.com/challenges/kaprekar-numbers/problem

[42] https://www.hackerrank.com/challenges/beautiful-triplets/problem

[43] https://www.hackerrank.com/challenges/flatland-space-stations/problem

[44] https://www.hackerrank.com/challenges/fair-rations/problem

[45] https://www.hackerrank.com/challenges/cavity-map/problem

[46] https://www.hackerrank.com/challenges/manasa-and-stones/problem

[47] https://www.hackerrank.com/challenges/manasa-and-stones/problem

[48] https://www.hackerrank.com/challenges/the-grid-search/problem

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[49] https://www.hackerrank.com/challenges/magic-square-forming/problem

[50] https://www.hackerrank.com/challenges/climbing-the-leaderboard/problem

[51] https://www.hackerrank.com/challenges/extra-long-factorials/problem

[52] https://www.hackerrank.com/challenges/non-divisible-subset/problem

[53] https://www.hackerrank.com/challenges/queens-attack-2/problem

[54] https://www.hackerrank.com/challenges/organizing-containers-of-balls/problem

[55] https://www.hackerrank.com/challenges/encryption/problem

[56] https://www.hackerrank.com/challenges/bigger-is-greater/problem

[57] https://www.hackerrank.com/challenges/the-time-in-words/problem

[58] https://www.hackerrank.com/challenges/the-grid-search/problem

[59] https://www.hackerrank.com/challenges/3d-surface-area/problem

[60] https://www.hackerrank.com/challenges/absolute-permutation/problem

[61] https://www.hackerrank.com/challenges/bomber-man/problem

[62] https://www.hackerrank.com/challenges/two-pluses/problem

[63] https://www.hackerrank.com/challenges/larrys-array/problem

[64] https://www.hackerrank.com/challenges/almost-sorted/problem

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