

HackerEarth Online Judge

Prepared by: Mohamed Ayman

Algorithm Engineer at Valeo
Deep Learning Researcher and Teaching Assistant
at The American University in Cairo (AUC)
spring 2020





- sw.eng.MohamedAyman@gmail.com
- f facebook.com/cs.MohamedAyman
- in linkedin.com/in/cs-MohamedAyman
- github.com/cs-MohamedAyman

HackerEarth Online Judge - Phase 1.2

We will discuss in this lecture the following topics

1- Implementation I

2- Implementation II

3- Implementation III

4- Implementation IV

[25 problems]

[25 problems]

[25 problems]

[25 problems]









Section 2: Implementation II

Section 3: Implementation III



HackerEarth - Implementation I







- [02] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/softsort-7/
- [03] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/palindromic-ciphers/
- [04] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/game-of-coins/
- [05] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/mishki-playing-games/
- [06] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/little-jhool-and-his-breakup/
- [07] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/killjee-and-sorted-array-ae92a57f/
- [08] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/utkarsh-and-distributing-books-february-easy/
- [09] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/prateek-and-his-friends/
- [10] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/fredo-is-in-a-hurry/
- [11] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/car-names-4/
- [12] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/room-allotment/
- [13] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/nitish-nikhil-and-natasha-e6374658/
- [14] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/rot13-modified/
- [15] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/scientists-calender/
- [16] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/shil-and-palindrome/
- [17] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/bobalice-and-the-perfect-road-1-3f60abdf/
- [18] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/attack-of-the-mind-flayer-3-119b5d47/

HackerEarth - Implementation I







- [20] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/special-matrix-1/
- [21] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/2-fast-2-furious/
- [22] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/new-game-of-oz/
- [23] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/diamonds-4/
- [24] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/the-art-of-verification/
- [25] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/little-shino-and-coins-3/







✓ Section 1: Implementation I

Section 2: Implementation II

Section 3: Implementation III



HackerEarth - Implementation II





topcoder



- [O2] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/stevie/
- [03] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/meet-the-other/
- [04] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/aniruddhas-queue-4/
- [05] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/new-language-8c0781c4/
- [06] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/leaderboard-standings-863c4cc2/
- [07] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/prince-and-his-thoughts/
- [08] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/the-upload-server-15bac95e/
- [09] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/little-kuldeep-and-contests/
- [10] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/palindromic-grid-e55f3027/
- [11] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/clones-1/
- [12] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/pile-of-coins-d33de897/
- [13] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/partition-string-db2c970d/
- [14] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/the-best-internet-browser-3/
- [15] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/compress-the-string-capillary-82bf96a4/
- [16] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/even-odd-queries-f52d76e2/
- [17] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/valid-chess-board-028343ac/
- [18] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/furniture-transportation-2/

HackerEarth - Implementation II







- [20] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/only-even/
- [21] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/roy-and-trains-2/
- [22] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/special-price/
- [23] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/roy-and-cipher-disk/
- [24] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/addition-errors-68e27044/
- [25] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/roy-and-texting-robot-2/



CODEFORCES Unline Judge

AtCoder

✓ Section 1: Implementation I

H topcoder

- ✓ Section 2: Implementation II
 - Section 3: Implementation III



HackerEarth - Implementation III









- https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/rahuls-logo/
- https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/tds-and-his-trips/
- https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/end-game/
- https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/bharti-ada5791f/
- https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/max-profit-7/
- https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/string-clash-197de0e2/
- https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/aldrin-iustice/
- https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/optimization-game/
- https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/game-of-jenga/
- https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/raeess-liquor-tank/
- https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/communicating-coronaviruses-1/
- https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/playing-with-given-numbers/
- https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/passing-the-parcel/
- https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/jiva-the-self-driven-car/
- https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/erase-to-max-7b8c0ca3/
- https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/little-jhool-and-brute-force-18/
- https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/uniqueness-violation-b78b51ee/
- https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/alex-and-requests-72568e72/

HackerEarth - Implementation III







- [20] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/illegible-string/
- [21] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/dummy1-1/
- [22] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/bear-and-chocolate/
- [23] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/bear-and-medals/
- [24] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/gupta-chaturvedi-and-saxena-trilogy-a/
- [25] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/old-and-cold-numbers-d9326e6b/



CODEFORCES UNION DIVINE Judge

✓ Section 1: Implementation I

H topcode

- ✓ Section 2: Implementation II
- ✓ Section 3: Implementation III



HackerEarth - Implementation IV





topcoder



- [02] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/white-space-3/
- [03] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/strings-1/
- [04] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/similarity/



- [06] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/what-is-the-string-made-of-2/
- [07] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/roy-and-coding-contest/
- [08] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/superbalancedbracket-75edd495/
- [09] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/sam-in-trouble-2-131edb9c/
- [10] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/killcodes-wish-2/
- [11] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/sagars-gift-6/
- [12] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/deleting-numbers-efb41d85/
- [13] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/cake-2/
- [14] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/dont-be-greedy/
- [15] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/kth-character-60eed906/
- [16] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/partial-digit-sequence-34fa8391/
- [17] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/ikshu-and-his-machine-gun/
- [18] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/hack-the-string-9dce7834/

HackerEarth - Implementation IV











- [19] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/one-for-all/
- [20] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/the-thirsty-crow/
- https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/xorsum/
- https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/highest-number/
- https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/the-psychic-type/
- https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/simple-addition-2/
- [25] https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/golf/jadoo-and-positive-integers/



CODEFORCES Unline Judge

AtCoder

✓ Section 1: Implementation I

H topcoder

- ✓ Section 2: Implementation II
- ✓ Section 3: Implementation III
- ✓ Section 4: Implementation IV



